# SERVICE MANUAL

## 17” LCD Monitor

THESE DOCUMENTS ARE FOR REPAIR SERVICE INFORMATION ONLY. EVERY REASONABLE EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THIS MANUAL; WE CANNOT GUARANTEE THE ACCURACY OF THIS INFORMATION AFTER THE DATE OF PUBLICATION AND DISCLAIMS RE LIABILITY FOR CHANGES, ERRORS OR OMISSIONS.

Manufacture Date:Apr-09-04

# Table of Contents


Table of Contents ---------- 02

Revision List ---------- 04

1. Monitor Specification ----------05

2. LCD Monitor Description ----------05

3. Operation Instructions ----------06

3.1 General Instructions ----------06

3.2 Adjusting The Picture ----------06

4. Input/Output Specification ---------- 08

4.1 Input Signal Connector ----------08

4.2 Factory Preset Display Modes ----------09

4.3 Power Supply Requirements ----------10

4.3.1 Input/Output Requirements ----------10

4.3.2 Inverter Max Brightness ----------10

4.3.3 Inverter Min Brightness ----------10

4.4 Panel Specification (QDI L07) ----------11

4.4.1 Display Characteristics ----------11

4.4.2 Optical Characteristics ----------12

4.4.3 Parameter guide line for CCFL Inverter ----------12

5. Block Diagram ----------13

5.1 Monitor Exploded View ----------13

5.2 Software Flow Chart ----------14

| |
|---|
| 5.3 Electrical Block Diagram ----------16 |
| 5.3.1 Scalar Board ----------16 |
| 5.3.2 Inverter/Power Board ----------17 |
| 6. Schematic ----------19 |
| 6.1 Scalar Board ----------19 |
| 6.2 Inverter/Power Board ----------22 |
| 6.3 Key Pad Board ----------24 |
| 7. PCB Layout ----------25 |
| 7.1 Main Board ----------25 |
| 7.2 Inverter/Power Board ----------26 |
| 7.3 Keypad Board ----------26 |
| 8. Maintainability ----------27 |
| 8.1 Equipments and Tools Requirements ----------27 |
| 8.2 Trouble Shooting ----------28 |
| 8.2.1 Main Board ----------28 |
| 8.2.2 Power/Inverter Board ----------31 |
| 8.2.3 Key Pad Board ----------33 |
| 9. White-Balance, Luminance Adjustment ----------34 |
| 10. EDID Content ----------35 |
| 11. BOM List ----------36～50 |
| |
| |

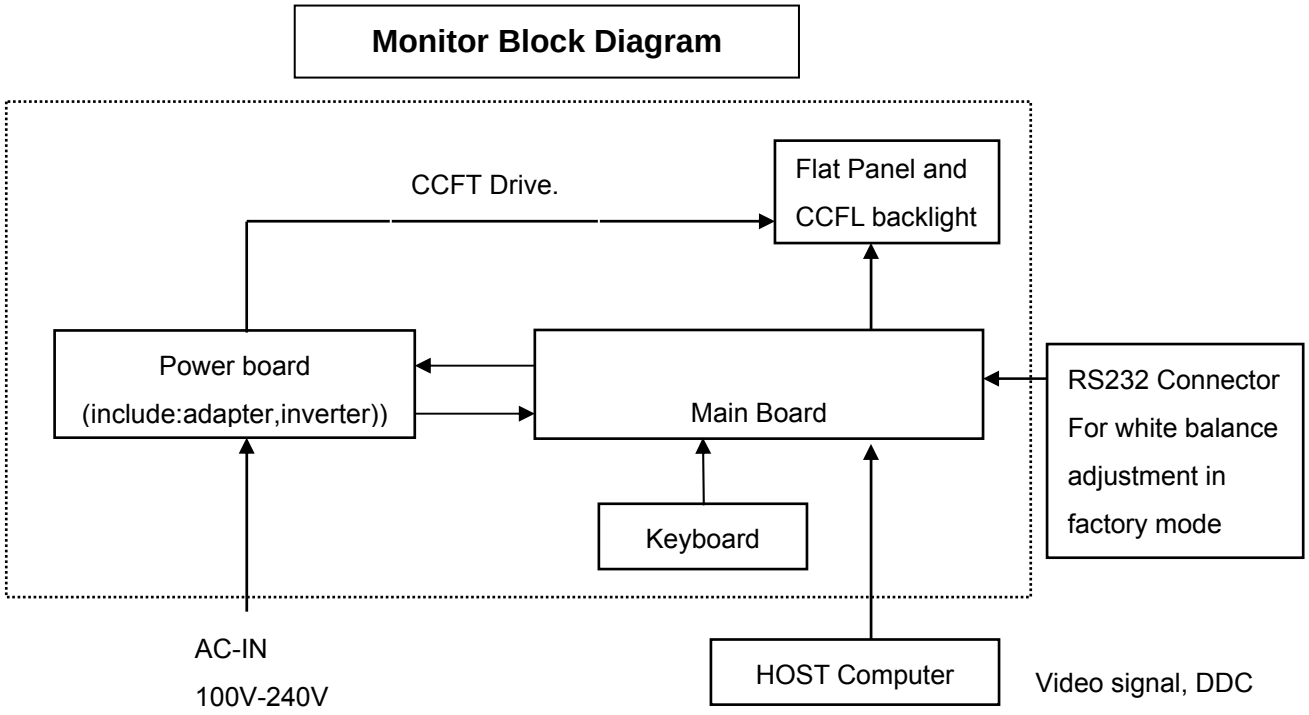
# 1. MONITOR SPECIFICATIONS

| | | |
|---|---|---|
| LCD Panel | Driving system | TFT Color LCD |
| | Size | 43.2cm(17.0") |
| | Pixel pitch | 0.264mm( H )x 0.264mm( V ) |
| | Viewable angle | 140˚ (H) 130˚ (V) |
| | Response time (typ.) | 25 ms |
| Input | Video | Analog |
| | Sync. Type | H/V TTL |
| | H-Frequency | 30kHz – 80kHz |
| | V-Frequency | 55-75Hz |
| Display Colors | | Over 16 million Colors |
| Dot Clock | | 135MHz |
| Max. Resolution | | 1280 x 1024 |
| Plug & Play | | VESA DDC2B™ |
| Power Consumption | ON Mode | ≤45W |
| | OFF Mode | ≤3W |
| Maximum Screen Size | | Horizontal : 13.3”(337.92mm)<br>Vertical : 10.6”(270.336mm) |
| Power Source | | 100~240VAC,47~63Hz |
| Environmental Considerations | | Operating Temp: 0°C to 40°C<br>Storage Temp.: -20°C to 60°C<br>Operating Humidity : 15% to 90% |
| Weight (N. W.) | Packaged | 7.4Kgs Unit |
| | Unpackaged | 6.6Kgs Unit |

## 2. LCD MONITOR DESCRIPTION

The LCD MONITOR will contain an main board, an inverter/power board, keypad board and internal adapter which house the flat panel control logic, brightness control logic and DDC.

The Inverter board will drive the backlight of panel and the DC-DC conversion.



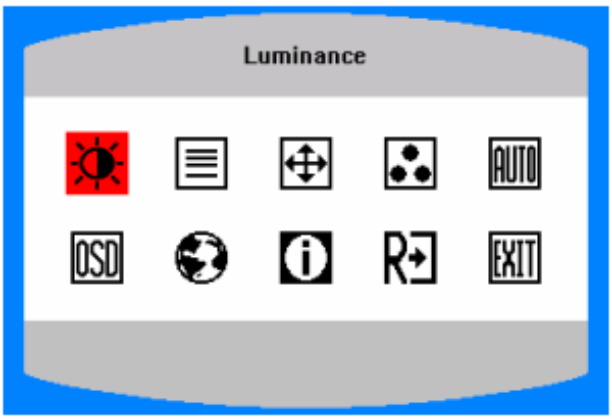
# 3. OPERATING INSTRUCTIONS

## 3.1 GENERAL INSTRUCTIONS

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

## 3.2 Adjusting the Picture



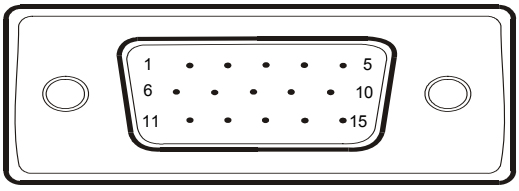

**The descriptions for function control LEDS**

| Main Menu Item | Main Menu Icon | Sub Menu Item | Sub Menu Icon | Description | Adjust Range | Reset Value |
|---|---|---|---|---|---|---|
| Luminance | | Contrast | | Contrast from Digital-register. | 0-100 | Recall Cool Contrast Value |
| | | Brightness | | Backlight Adjustment | 0-100 | Recall Cool Brightness Value |
| Image Setup | | Focus | | Adjust Picture Phase to reduce Horizontal-Line noise | 0-100 | Do Auto Config |
| | | Clock | | Adjust picture Clock to reduce Vertical-Line noise. | 0-100 | Do Auto Config |
| Image Position | | H. Position | | Adjust the horizontal position of the picture. | 0-100 | Do Auto Config |
| | | V. Position | | Adjust the vertical position of the picture. | 0-100 | Do Auto Config |
| Color Temp. | | Warm | N/A | Recall Warm Color Temperature from EEPROM. | N/A | The Color Temperature will be set to Cool. |
| | | Cool | N/A | Recall Cool Color Temperature from EEPROM. | N/A | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | User / Red | R | Red Gain from Digital-register. | 0-100 | The User R/G/B value(default is 100) will not be Modified by Reset function. |
| | | User / Green | G | Green Gain Digital-register. | 0-100 | |
| | | User / Blue | B | Blue Gain from Digital-register. | 0-100 | |
| Auto Config (Analog-Only Model) | AUTO | Yes | N/A | Auto Adjust the H/V Position, Focus and Clock of picture. | N/A | N/A |
| | | No | N/A | Do not execute Auto Config, return to main menu. | N/A | N/A |
| OSD Setup | OSD | H. Position | | Adjust the horizontal position of the OSD. | 0-100 | 50 |
| | | V. Position | | Adjust the vertical position of the OSD. | 0-100 | 50 |
| | | OSD Timeout | | Adjust the OSD timeout. | 10-120 | 10 |
| Language | | English | N/A | Set OSD display language to English. | N/A | The Language will be set to English. |
| | | Deutsch | N/A | Set OSD display language to German. | N/A | |
| | | Français | N/A | Set OSD display language to French. | N/A | |
| | | Español | N/A | Set OSD display language to Spain. | N/A | |
| | | Italiano | N/A | Set OSD display language to Italian. | N/A | |
| | | 简体中文 | N/A | Set OSD display language to Simplified Chinese. | N/A | |
| Information | | Information | N/A | Show the resolution, H/V frequency and input port of current input timing. | N/A | N/A |
| Reset | | Yes | N/A | Clear each old status of Auto-configuration and set the color temperature to Cool. | N/A | N/A |
| | | No | N/A | Do not execute reset, return to main menu. | N/A | N/A |
| Exit | EXIT | N/A | N/A | Exit OSD | N/A | N/A |

# 4. Input/Output Specification

## 4.1 Input Signal Connector

| PIN NO. | DESCRIPTION | PI N NO. | DESCRIPTION |
|---|---|---|---|
| 1. | Red | 9. | +5V |
| 2. | Green | 10. | Detect Cable |
| 3. | Blue | 11. | NC |
| 4. | Ground | 12. | DDC-Serial Data |
| 5. | Ground | 13. | H-Sync |
| 6. | R-Ground | 14. | V-Sync |
| 7. | G-Ground | 15. | DDC-Serial Clock |
| 8. | B-Ground | | |
| **VGA connector layout** | | | |
|  | | | |

## 4.2 Factory Preset Display Modes

| VESA MODES | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Horizontal | | Vertical | | |
| Mode | Resolution | Total | Nominal Frequency +/- 0.5kHz | Sync Polarity | Nominal Freq. +/- 1 Hz | Sync Polarity | Nominal Pixel Clock (MHz) |
| VGA | 640x480@60Hz | 800 x 525 | 31.469 | N | 59.940 | N | 25.175 |
| | 640x480@72Hz | 832 x 520 | 37.861 | N | 72.809 | N | 31.500 |
| | 640x480@75Hz | 840 x 500 | 37.500 | N | 75.00 | N | 31.500 |
| SVGA | 800x600@56Hz | 1024 x 625 | 35.156 | N/P | 56.250 | N/P | 36.000 |
| | 800x600@60Hz | 1056 x 628 | 37.879 | P | 60.317 | P | 40.000 |
| | 800x600@72Hz | 1040 x 666 | 48.077 | P | 72.188 | P | 50.000 |
| | 800x600@75Hz | 1056x625 | 46.875 | P | 75.000 | P | 49.500 |
| XGA | 1024x768@60Hz | 1344x806 | 48.363 | N | 60.004 | N | 65.000 |
| | 1024x768@60Hz | 1312x813 | 48.78 | N | 60.00 | N | 64.000 |
| | 1024x768@70Hz | 1328x806 | 56.476 | N | 70.069 | N | 75.000 |
| | 1024x768@72Hz | 1304x798 | 57.515 | P | 72.074 | P | 75.000 |
| | 1024x768@75Hz | 1328x804 | 60.200 | N | 74.90 | N | 80.000 |
| | 1024x768@75Hz | 1312x800 | 60.023 | P | 75.029 | P | 78.750 |
| XGA | 1152x864@75Hz | 1600x900 | 67.50 | P | 75.000 | P | 108.000 |
| SXGA | 1280x1024@60Hz | 1688x1066 | 63.981 | P | 60.020 | P | 108.000 |
| | 1280x1024@75Hz | 1688x1066 | 79.976 | P | 75.025 | P | 135.000 |
| **IBM MODES** | | | | | | | |
| | | | Horizontal | | Vertical | | |
| Mode | Resolution | Total | Nominal Frequency +/- 0.5kHz | Sync Polarity | Nominal Freq. +/- 1 Hz | Sync Polarity | Nominal Pixel Clock (MHz) |
| DOS* | 720x400@70Hz | 900 x 449 | 31.469 | N | 70.087 | P | 28.322 |
| DOS** | 640x400@70Hz | 800 x 449 | 31.469 | N | 70.087 | P | 25.175 |
| **MAC MODES** | | | | | | | |
| VGA | 640x480@67Hz | 864x525 | 35.000 | N | 66.667 | N | 30.240 |
| SVGA | 832x624@75Hz | 1152x667 | 49.725 | N | 74.551 | N | 57.2832 |

## 4.3 Power Supply Requirements

### 4.3.1 Input Requirements

INVERTER MAX BRINGTHNESS (Vadj:5.0v), LOAD=120KΩX4(ROOM TEMPERATURE 25℃ ±4℃**)**

| ITEM | SYMBOL | MIN. | TYP. | MAX. | UNIT | REMARK |
|---|---|---|---|---|---|---|
| Input voltage | Vin | 10.8 | 12 | 13.2 | V | |
| Input current | Iin | | 2250 | 2500 | mA | FOR 4 LOAD |
| Output Current | Iout | 6.0 | 6.5 | 7.0 | mA | FOR 1 LOAD |
| Frequency | F | 50.0 | 55.0 | 60.0 | KHZ | FOR 1 LOAD |
| H.V open | Vopen | 1450 | 1600 | 1750 | Vrms | NO LOAD |
| H.V Load | Vload | 710 | 810 | 910 | Vrms | RL=120KΩ |
| Start voltage | Vst | 1650 | 1750 | 1850 | Vrms | RL=CCFL |
| Protect delay time | PDT | 0.4 | 1 | 4 | Sec | |

### 4.3.2 Output Requirements

INVERTER MIN BRINGTHNESS (Vadj:0.0v), LOAD=120KΩX4(ROOM TEMPERATURE 25℃ ±4℃**)**

| ITEM | SYMBOL | MIN. | TYP. | MAX. | UNIT | REMARK |
|---|---|---|---|---|---|---|
| Input voltage | Vin | 10.8 | 12 | 13.2 | V | |
| Input current | Iin | | 660 | 750 | mA | FOR 4 LOAD |
| Output Current | Iout | 3.0 | 3.5 | 4.0 | mA | FOR 1 LOAD |
| Frequency | F | 50.0 | 55.0 | 60.0 | KHZ | FOR 1 LOAD |
| H.V open | Vopen | 1450 | 1600 | 1750 | Vrms | NO LOAD |
| Start voltage | Vst | 1650 | 1750 | 1850 | Vrms | RL=CCFL |
| H.V Load | Vload | 350 | 450 | 550 | Vrms | RL=120KΩ |

## 4.4 Panel Specification (QDI L07)

### 4.4.1 Display Characteristics

| PARAMETER | SPECIFICATION | UNIT |
|---|---|---|
| Display Size | 43(17") Diagonal | cm |
| Active area | 337.9(H) x 270.3(V) | mm |
| Pixel format | 1280(H) x 1024(V) | pixel |
| | (1 Pixel=R+G+B dots) | |
| Pixel pitch | 0.264(H) x 0.264(V) | mm |
| Pixel configuration | R, G, B vertical stripe | |
| Display mode | Normally White | |
| Unit outline dimensions (typ.)*1 | 358.5 x 296.5x 16.5 | mm |
| weight | 1970(Max.) | g |
| Surface treatment | Anti-glare and hard-coating 3H<br>Low reflection (~ 5%) | |
| Lamp Quantity | 4 | pcs |

### 4.4.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25℃(Room Temperature)：

| Parameter | | Symbol | Condition | Min | Typ. | Max. | Unit | Remark |
|---|---|---|---|---|---|---|---|---|
| Viewing angle range | Horizontal | θ21, θ22 | CR>10 | 65 | 75 | | Deg | Note1,4 |
| | Vertical | θ11 | | 55 | 65 | | Deg | |
| | | θ12 | | 50 | 60 | | Deg | |
| | Horizontal | θ21, θ22 | CR>5 | | 85 | | Deg | |
| | Vertical | θ11 | | | 75 | | Deg | |
| | | θ12 | | | 70 | | Deg | |
| Contrast ratio | | CR | θ=0° | 300 | 450 | — | | Note2, 4 |
| Response time | | t | θ=0° | — | 20 | | ms | Note3, 4 |
| Rise time | tr | | | | 4 | | ms | |
| Fall time | td | | | | 16 | | ms | |
| Chromaticity of White(CIE 1931) | | Wx | | 0.283 | 0.313 | 0.343 | | Note4 |
| | | Wy | | 0.299 | 0.329 | 0.359 | | |
| Chromaticity of Red(CIE 1931) | | Rx | | 0.603 | 0.633 | 0.663 | | |
| | | Ry | | 0.306 | 0.336 | 0.366 | | |
| Chromaticity of Green(CIE 1931) | | Gx | | 0.270 | 0.300 | 0.330 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Gy | | 0.556 | 0.586 | 0.616 | | |
| Chromaticity of Blue(CIE 1931) | Bx | | 0.116 | 0.146 | 0.176 | | |
| | By | | 0.073 | 0.103 | 0.133 | | |
| Luminance of white Note 4[Note 4] | YL | | 240 | 300 | | cd/㎡ | IL=7.0 mArms |
| White Uniformity | δw | | — | 1.25 | 1.33 | | Note5 |
| Cross talk | | | | | 1.50% | | Note6 |

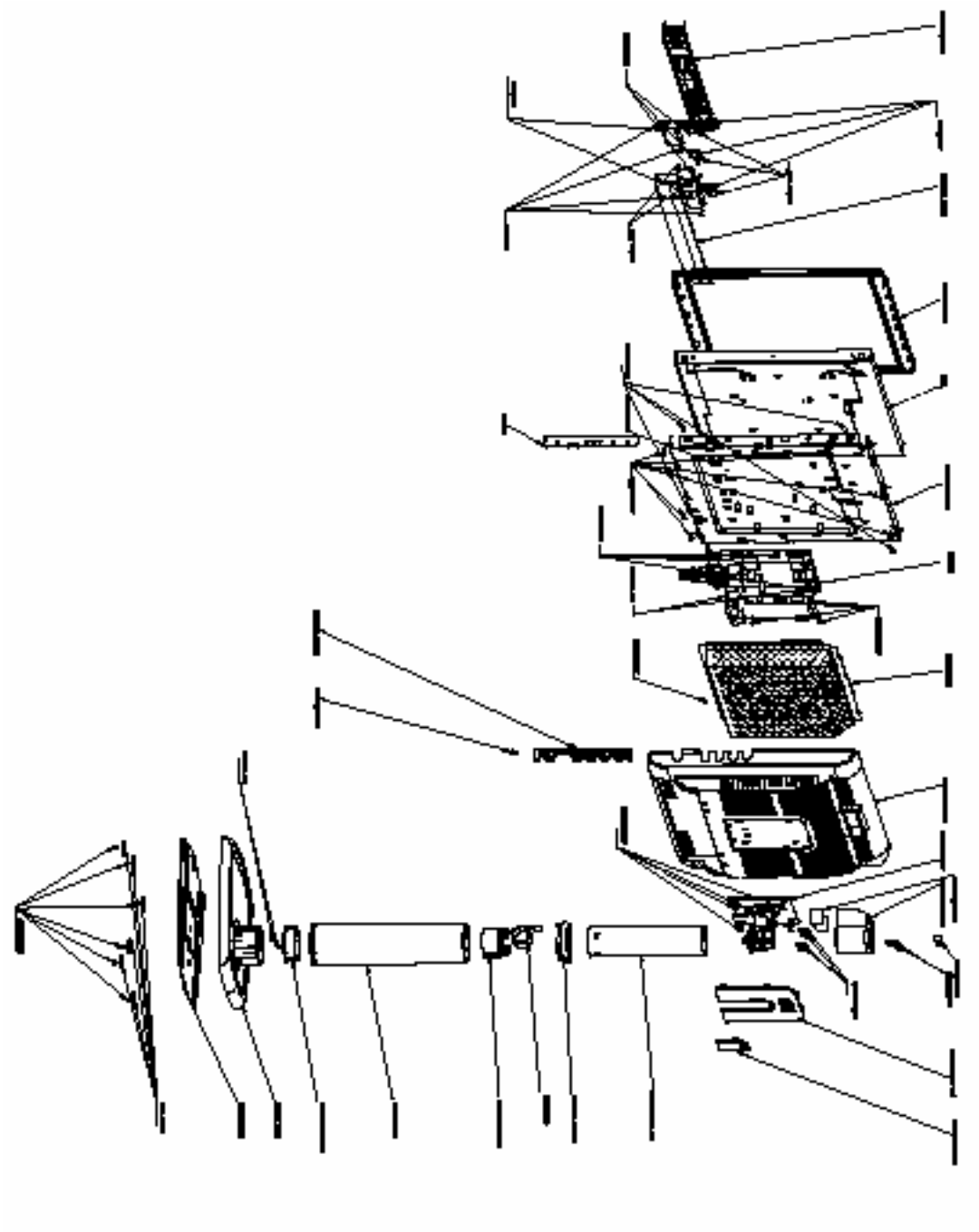
### 4.4.3 Parameter Guide for CFL Inverter

The backlight system is an edge-lighting type with 2- CCFL(Cold Cathode Fluorescent Lamp). The characteristics of four lamps are shown in the following tables.

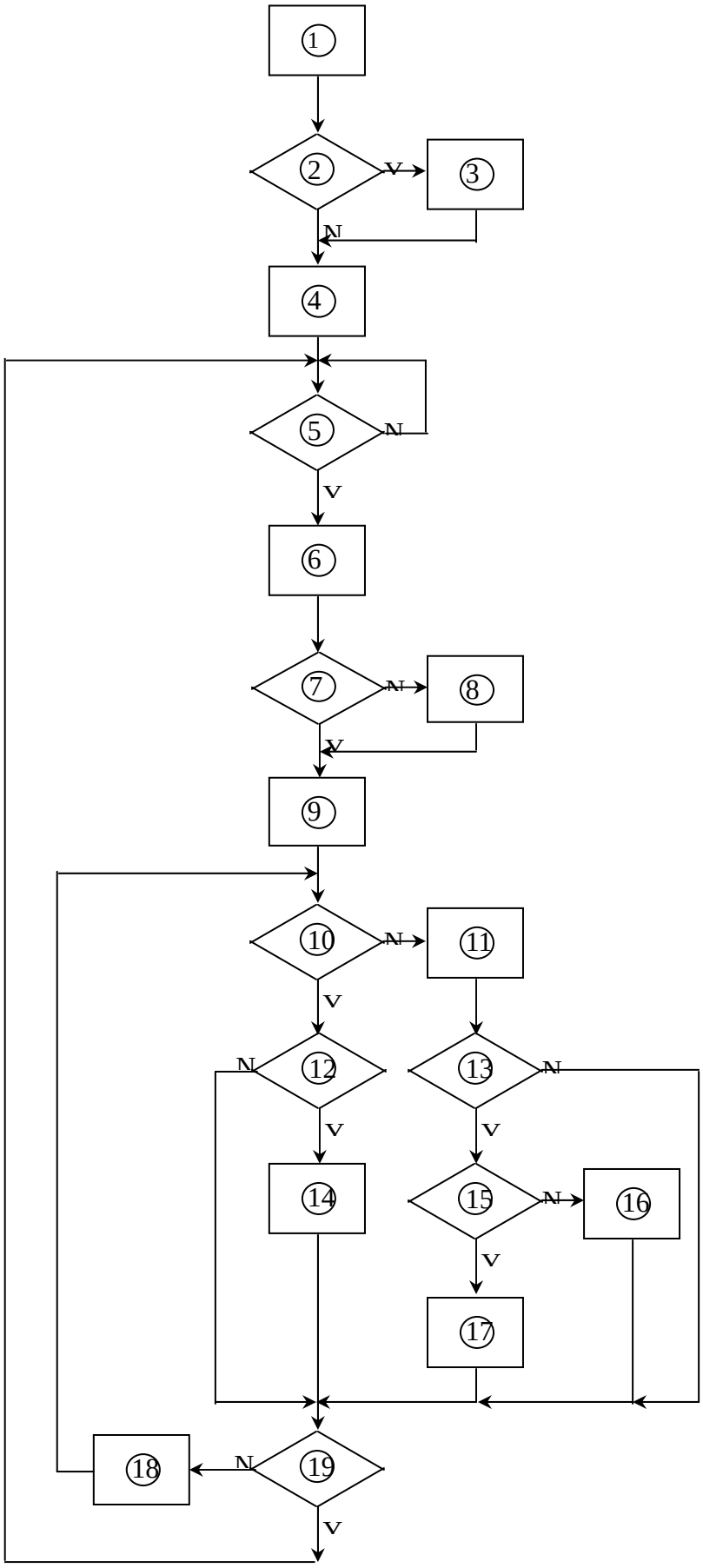
| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | REMARK | |
|---|---|---|---|---|---|---|---|
| Lamp current range | $I_L$ | 3.0 | 7.0 | 8.0 | mArms | Note1 | |
| Lamp voltage | $V_L$ | | 725 | | Vrms | | |
| Lamp power consumption | $P_L$ | | 5.1 | | W | Note2 IL=7.0mA | |
| Lamp frequency | FL | | 52 | | kHz | Note3 | |
| Established starting voltage | Vs | | | 1100 | Vrms | Ta=25℃ | Note4 |
| | | | | 1420 | Vrms | Ta=0℃ | |
| Lamp life time | $L_L$ | 40000 | 50000 | | hour | Note5 | |

# 5. Block Diagram

## 5.1 Monitor Exploded View



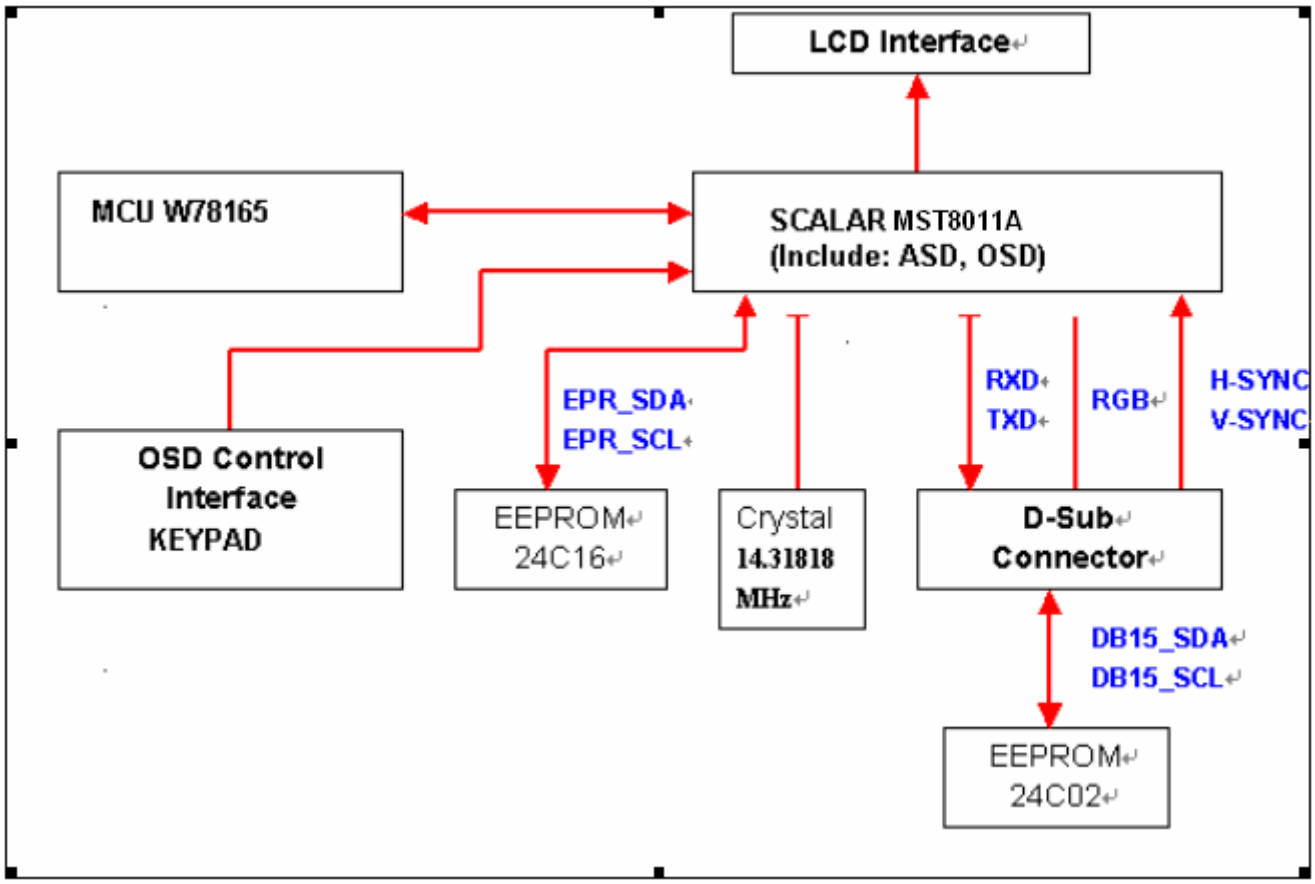
## 5.2 Software Flow Chart



1) MCU initialize.
2) Is the eeprom blank ?
3) Program the eeprom by default values.
4) Get the PWM value of brightness from eeprom.
5) Is the power key pressed ?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed ?
8) Enter factory mode.
9) Save the power key status into eeprom.
   Turn on the LED and set it to green color.
   Scaler initialize.
10) In standby mode ?
11) Update the life time of back light.
12) Check the analog port, are there any signals coming ?
13) Does the scalar send out a interrupt request ?
14) Wake up the scalar.
15) Are there any signals coming from analog port ?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappear.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed ?

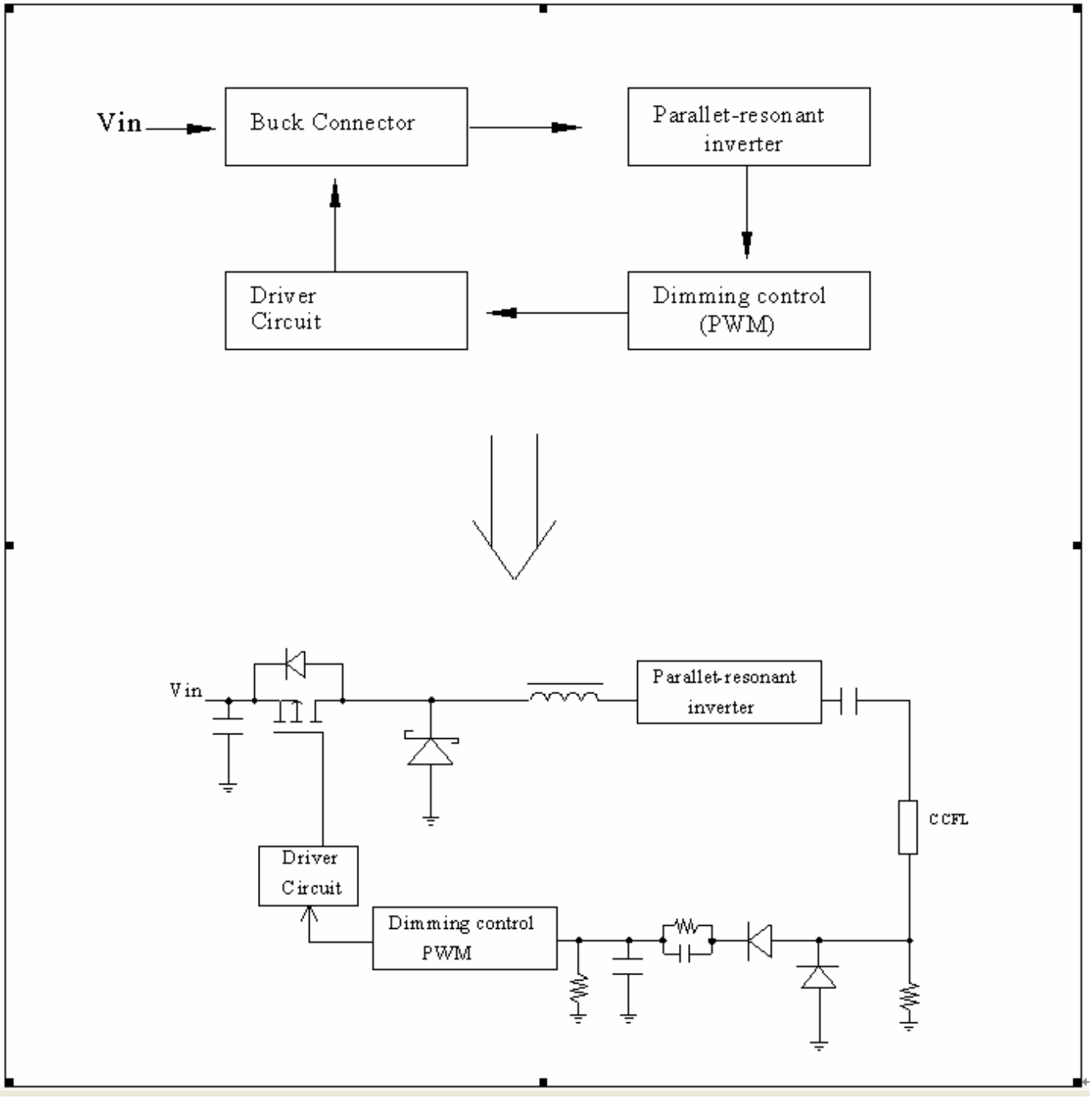
## 5.3 Electrical Block Diagram

### 5.3.1 Main Board

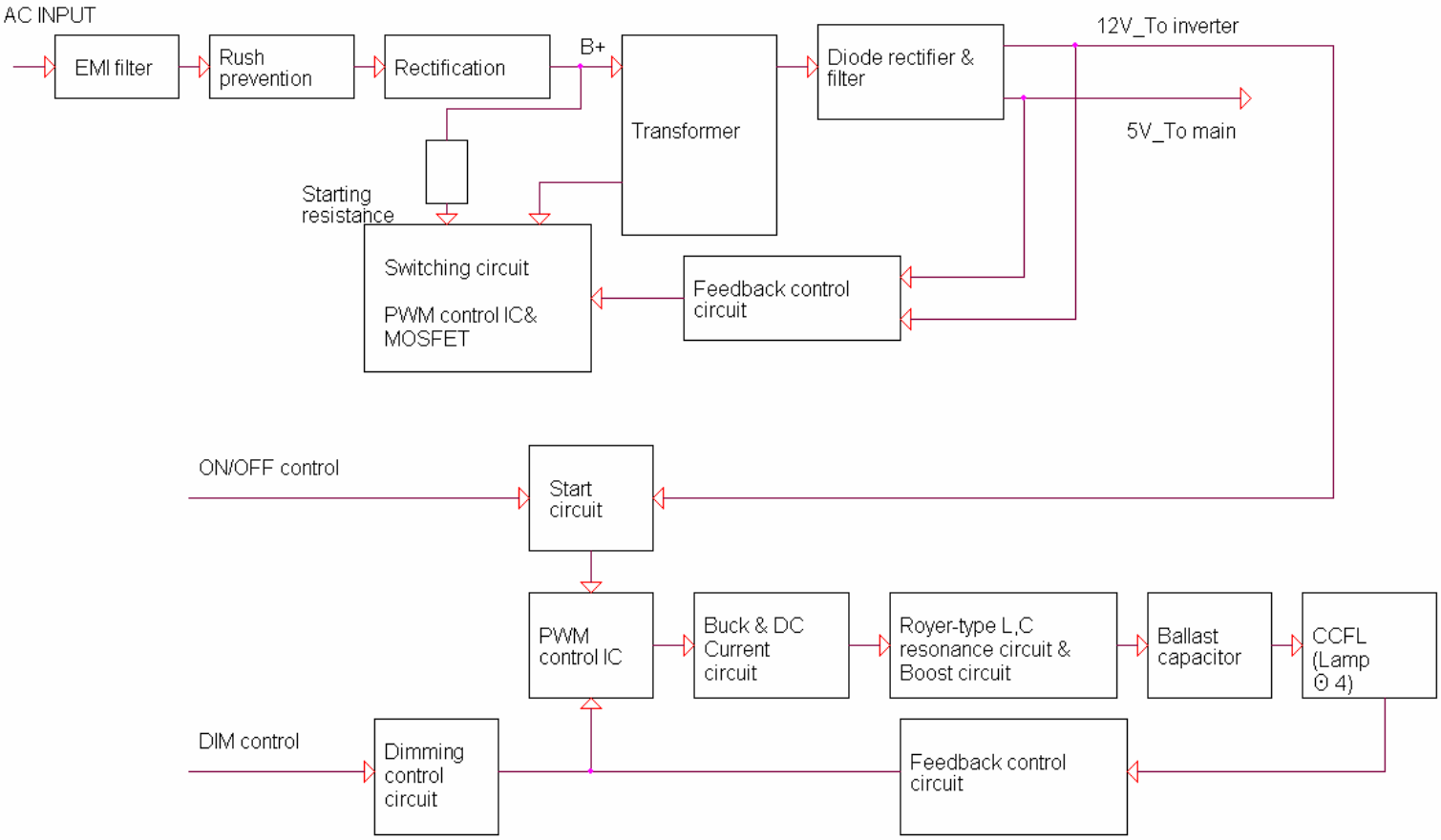


### 5.3.2 Inverter/Power Board

**Inverter Block Diagram**



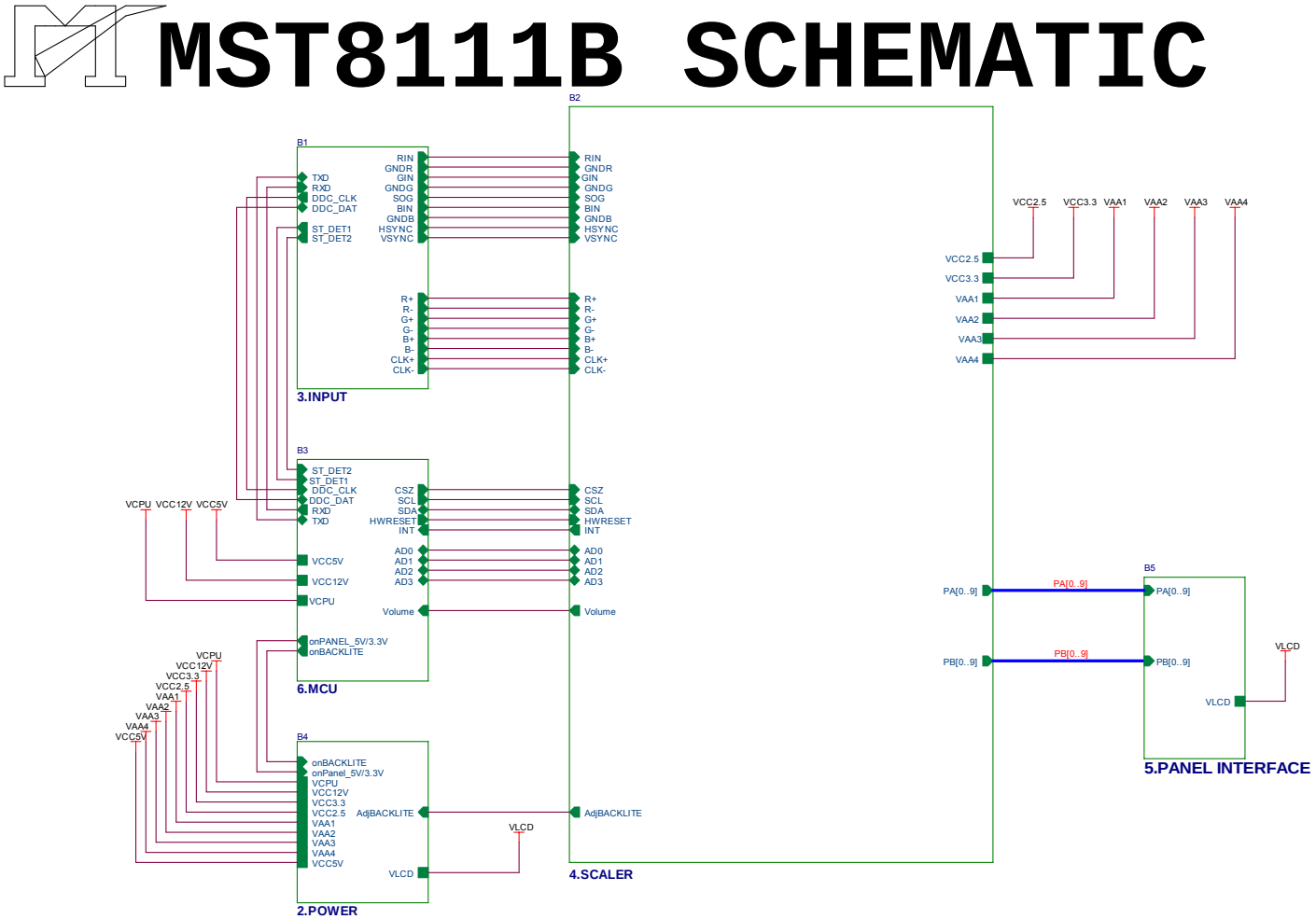
# Power Block Diagram

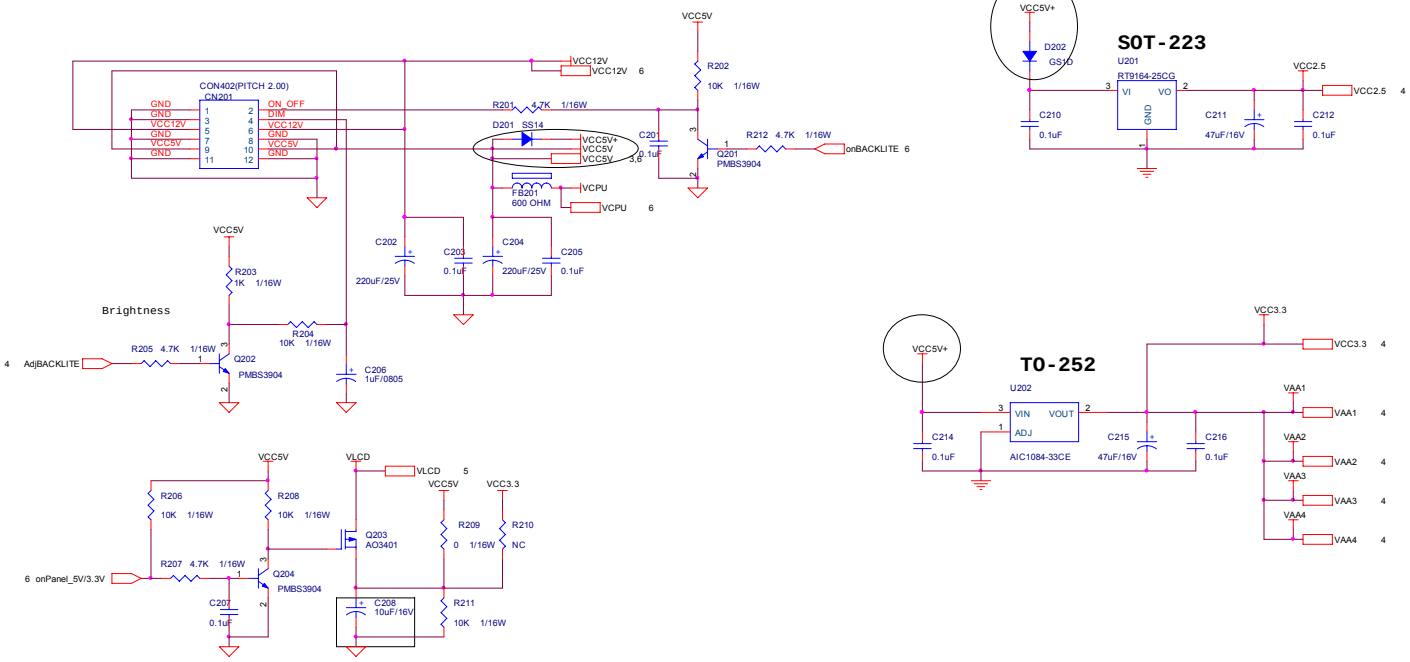


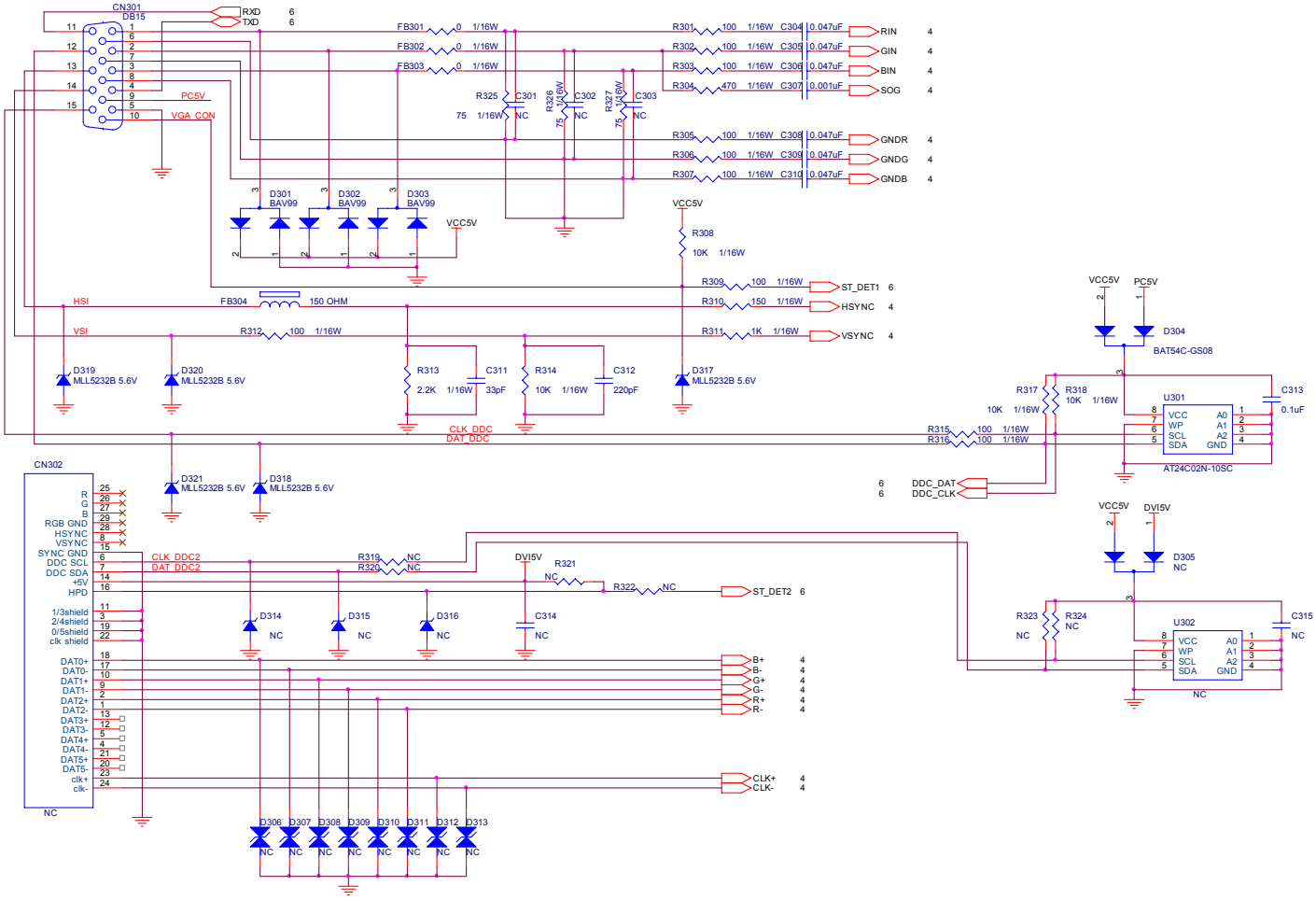
# 6. Schematic

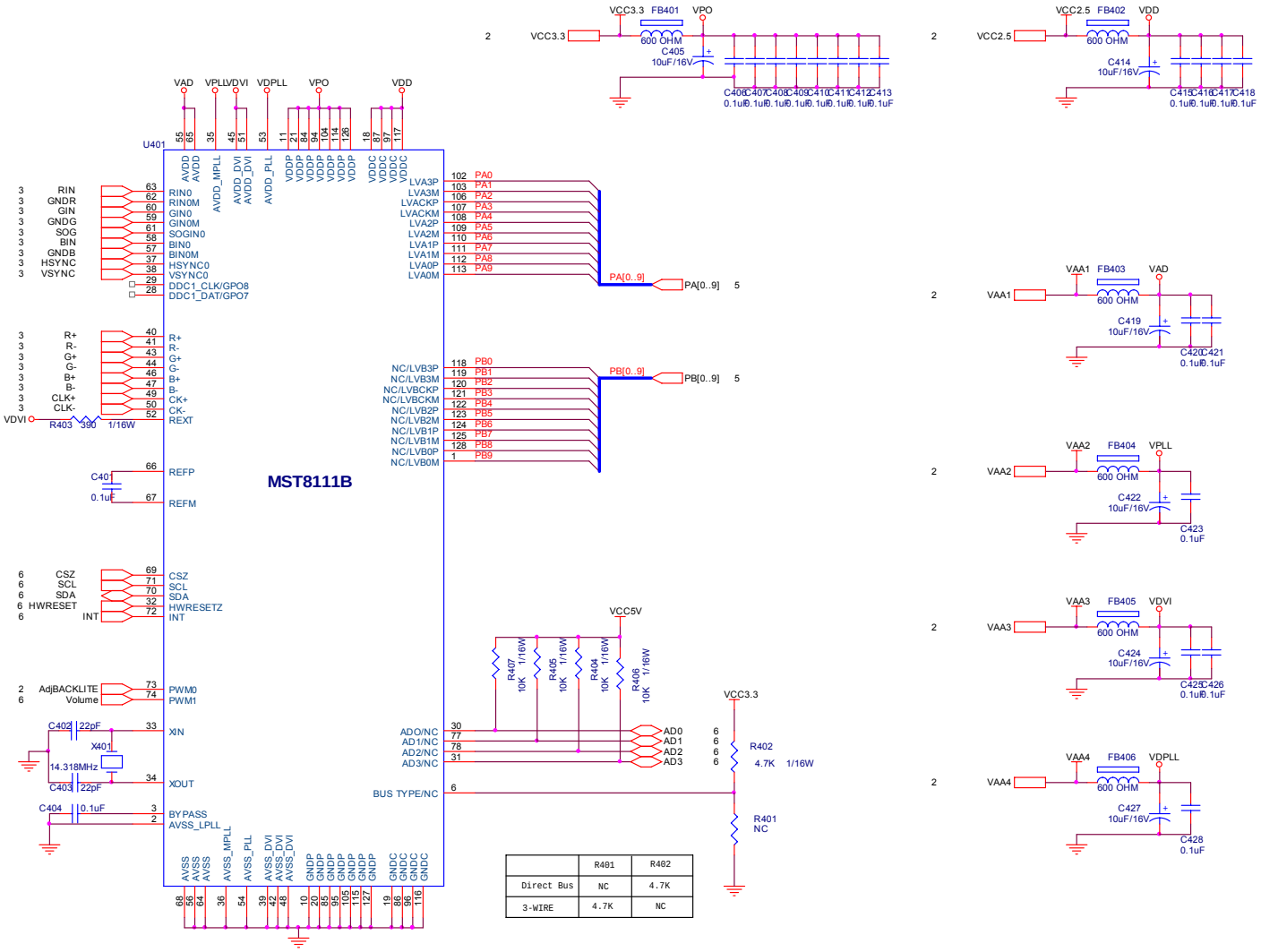
## 6.1 Main Board

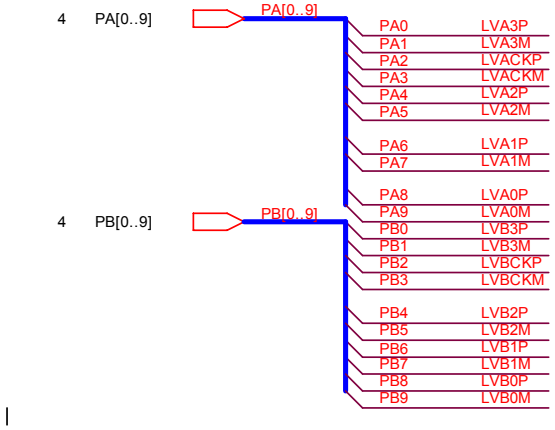
**715L1203-1**

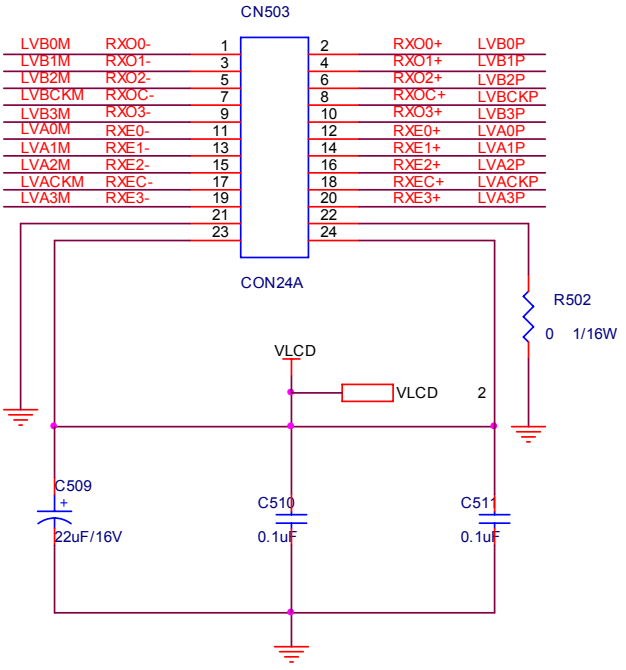


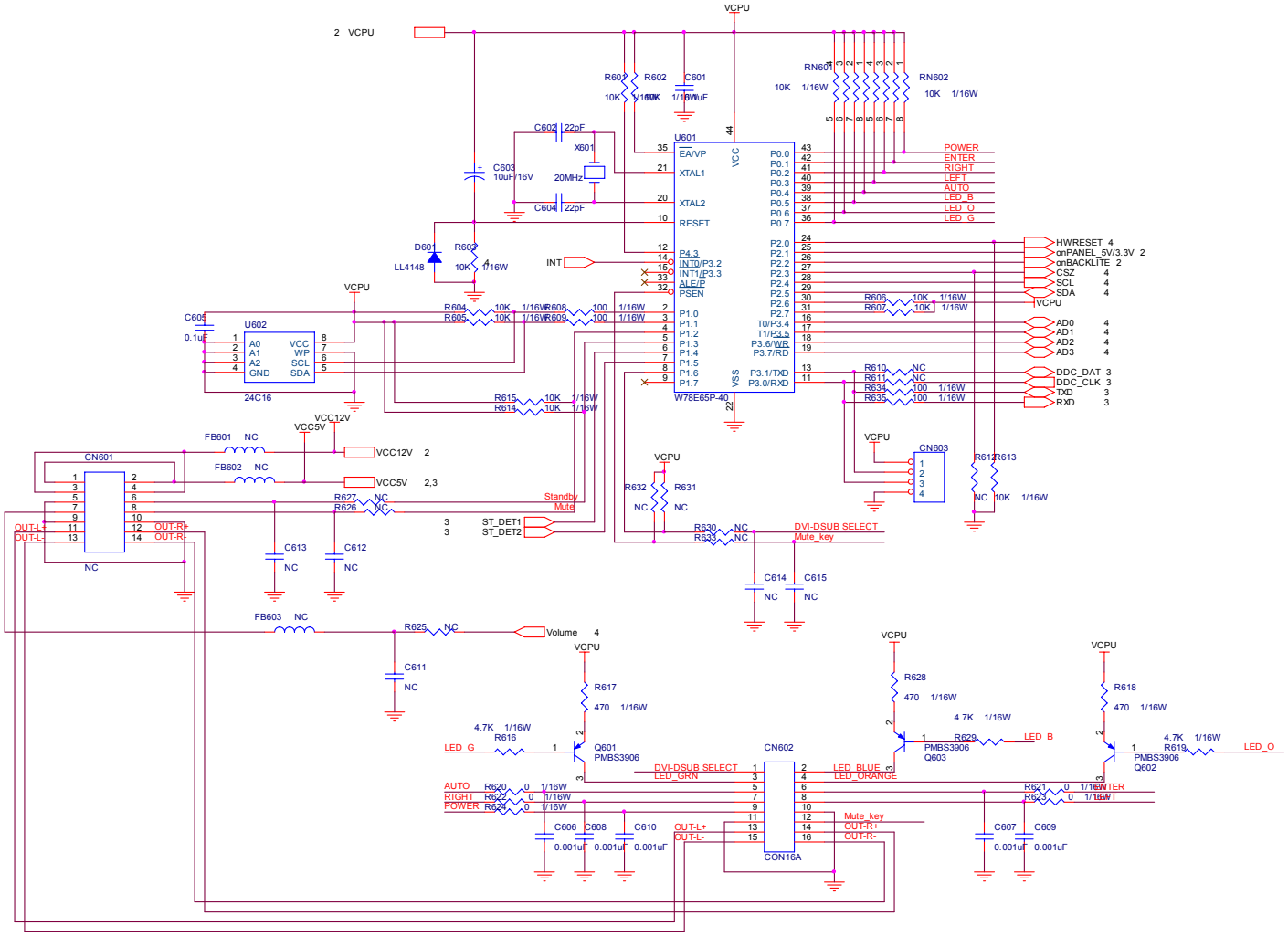




CN301
DB15
RXD
TXD
PC5V
VGA_CON
FB301 0 1/16W
FB302 0 1/16W
FB303 0 1/16W
R301 100 1/16W C304 0.047uF RIN
R302 100 1/16W C305 0.047uF GIN
R303 100 1/16W C306 0.047uF BIN
R304 470 1/16W C307 0.001uF SOG
R325 75 1/16W C301 NC
R326 75 1/4W C302 NC
R327 75 1/4W C303 NC
R305 100 1/16W C308 0.047uF GNDR
R306 100 1/16W C309 0.047uF GNDG
R307 100 1/16W C310 0.047uF GNDB
D301 BAV99
D302 BAV99
D303 BAV99
VCC5V
R308 10K 1/16W
R309 100 1/16W ST_DET1
R310 150 1/16W HSYNC
R311 1K 1/16W VSYNC
HSI
VSI
FB304 150 OHM
R312 100 1/16W
D319 MLL5232B 5.6V
D320 MLL5232B 5.6V
R313 2.2K 1/16W C311 33pF
R314 10K 1/16W C312 220pF
D317 MLL5232B 5.6V
CLK_DDC
DAT_DDC
D304 BAT54C-GS08
PC5V
R317 10K 1/16W
R318 10K 1/16W
U301
VCC
WP
SCL
SDA
A0
A1
A2
GND
C313 0.1uF
AT24C02N-10SC
R315 100 1/16W
R316 100 1/16W
DDC_DAT
DDC_CLK
CN302
R
G
B
RGB GND
HSYNC
VSYNC
SYNC GND
DDC SCL
DDC SDA
+5V
HPD
1/3shield
2/4shield
0/5shield
clk shield
DAT0+
DAT0-
DAT1+
DAT1-
DAT2+
DAT2-
DAT3+
DAT3-
DAT4+
DAT4-
DAT5+
DAT5-
clk+
clk-
NC
D321 MLL5232B 5.6V
D318 MLL5232B 5.6V
CLK_DDC2
DAT_DDC2
R319 NC
R320 NC
DVI5V
R321 NC
R322 NC
ST_DET2
D314 NC
D315 NC
D316 NC
C314 NC
B+
B-
G+
G-
R+
R-
CLK+
CLK-
D306 NC
D307 NC
D308 NC
D309 NC
D310 NC
D311 NC
D312 NC
D313 NC
VCC5V
DVI5V
D305 NC
R323 NC
R324 NC
U302
C315 NC
NC

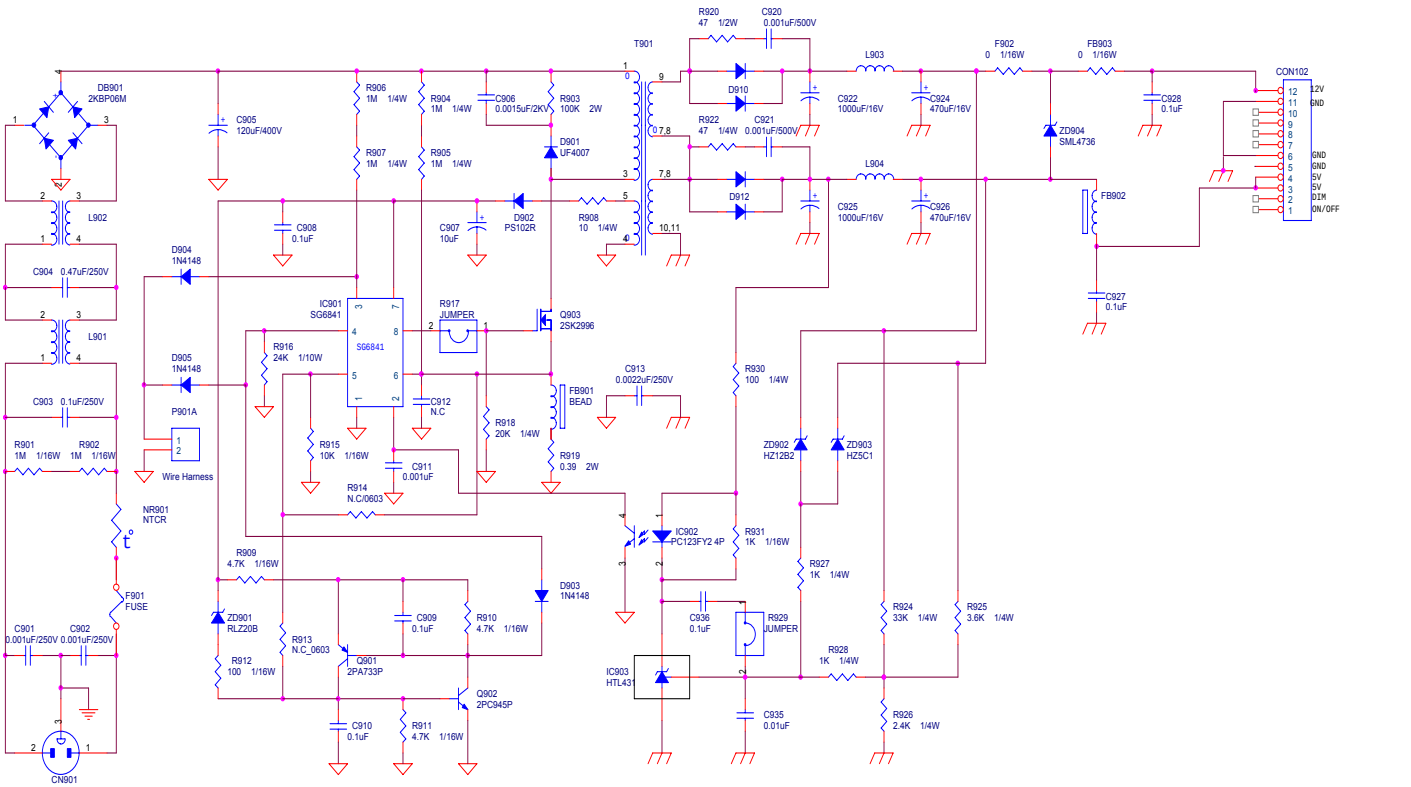

MST8111B
U401
VCC3.3 FB401 VPO
600 OHM
C405 10uF/16V
VCC2.5 FB402 VDD
C414 10uF/16V
VAA1 FB403 VAD
C419 10uF/16V
VAA2 FB404 VPLL
C422 10uF/16V
VAA3 FB405 VDVI
C424 10uF/16V
VAA4 FB406 VDPLL
C427 10uF/16V
VCC5V
R407 10K 1/16W
R405 10K 1/16W
R404 10K 1/16W
R406 10K 1/16W
R402 4.7K 1/16W
R401 NC
R403 390 1/16W
C401 0.1uF
C402 22pF
C403 22pF
X401 14.318MHz
C404 0.1uF
PA[0..9]
PB[0..9]
BUS TYPE/NC
R401 R402
Direct Bus NC 4.7K
3-WIRE 4.7K NC

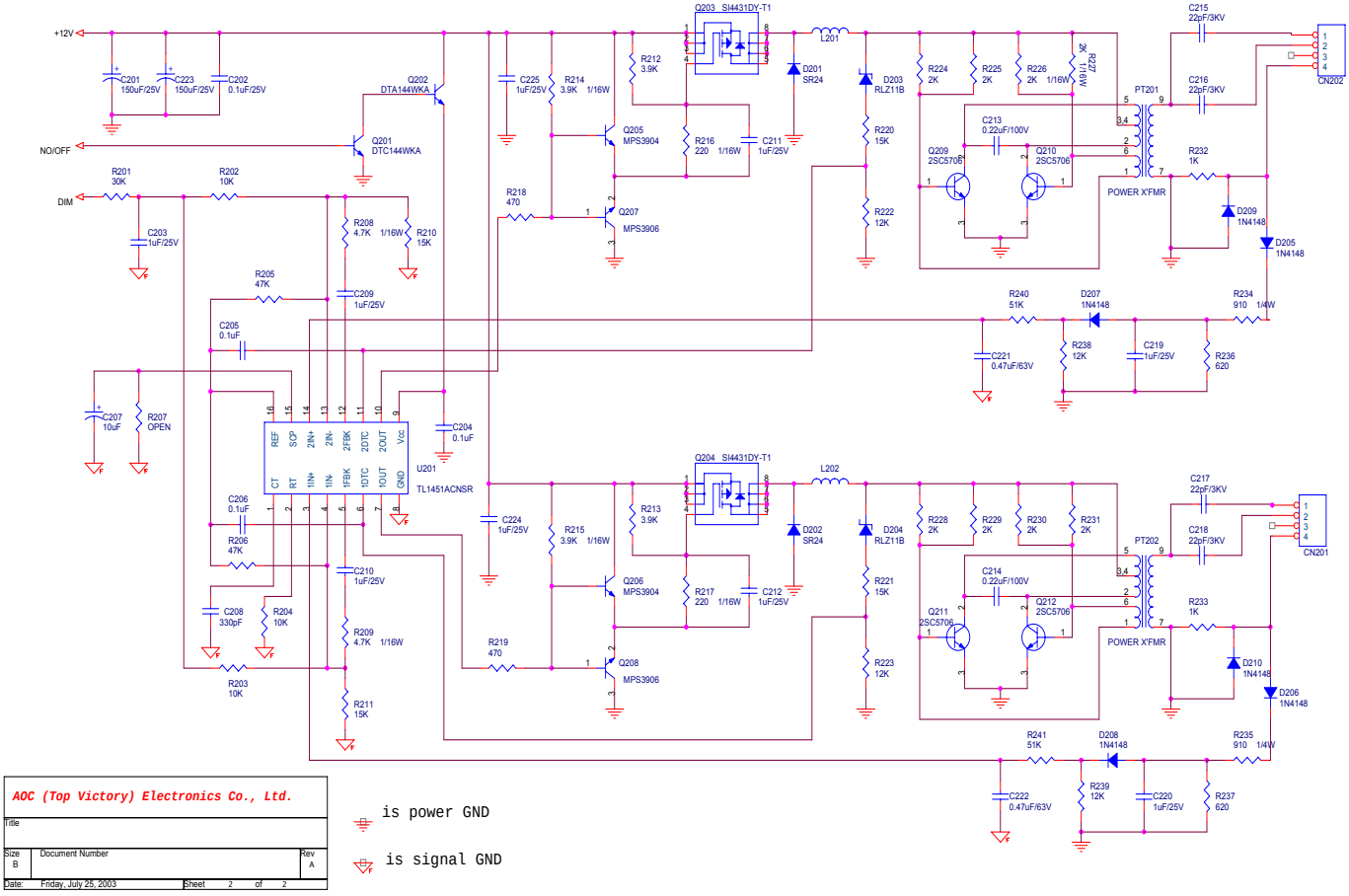

PA[0..9]
PB[0..9]
PA0 LVA3P
PA1 LVA3M
PA2 LVACKP
PA3 LVACKM
PA4 LVA2P
PA5 LVA2M
PA6 LVA1P
PA7 LVA1M
PA8 LVA0P
PA9 LVA0M
PB0 LVB3P
PB1 LVB3M
PB2 LVBCKP
PB3 LVBCKM
PB4 LVB2P
PB5 LVB2M
PB6 LVB1P
PB7 LVB1M
PB8 LVB0P
PB9 LVB0M


CN503
CON24A
LVB0M RXO0- 1
LVB1M RXO1- 3
LVB2M RXO2- 5
LVBCKM RXOC- 7
LVB3M RXO3- 9
LVA0M RXE0- 11
LVA1M RXE1- 13
LVA2M RXE2- 15
LVACKM RXEC- 17
LVA3M RXE3- 19
21
23
2 RXO0+ LVB0P
4 RXO1+ LVB1P
6 RXO2+ LVB2P
8 RXOC+ LVBCKP
10 RXO3+ LVB3P
12 RXE0+ LVA0P
14 RXE1+ LVA1P
16 RXE2+ LVA2P
18 RXEC+ LVACKP
20 RXE3+ LVA3P
22
24
R502 0 1/16W
VLCD
C509 22uF/16V
C510 0.1uF
C511 0.1uF




## 6.2 Inverter/Power Board



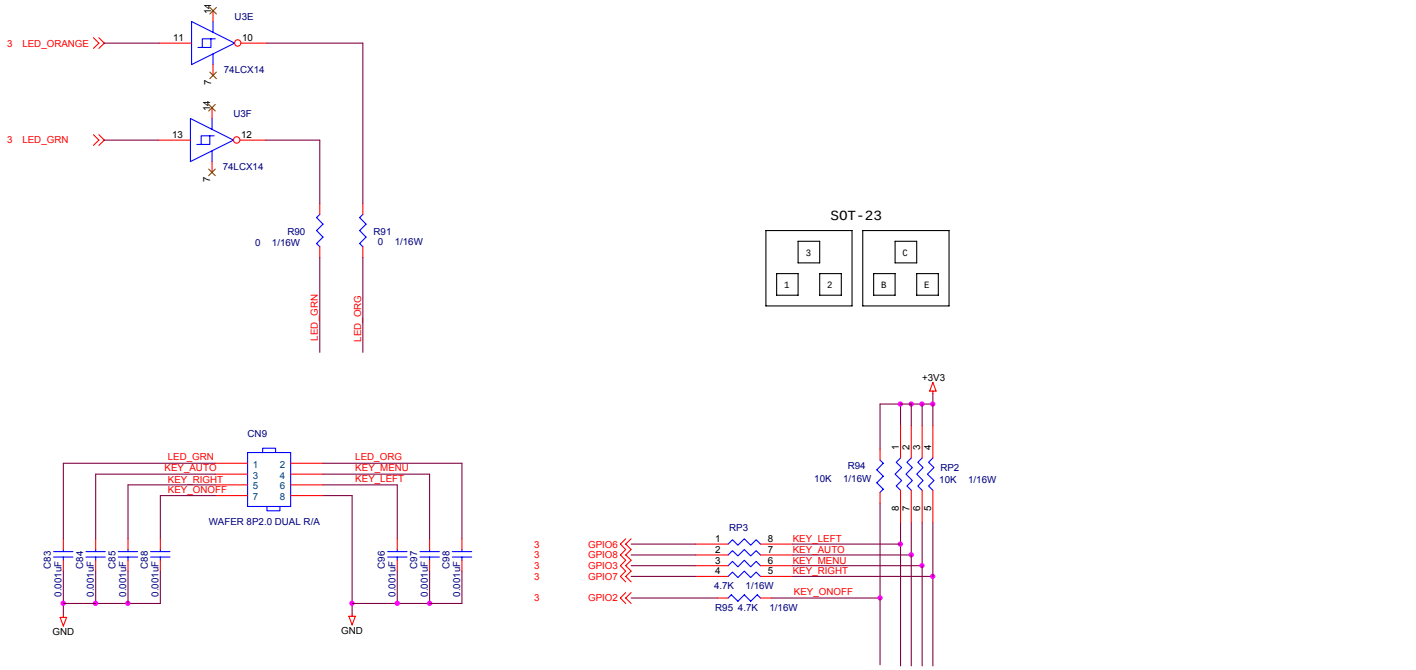



| | |
|---|---|
| AOC (Top Victory) Electronics Co., Ltd. | |
| Title | |
| Size B | Document Number Rev A |
| Date: Friday, July 25, 2003 | Sheet 2 of 2 |

is power GND

is signal GND

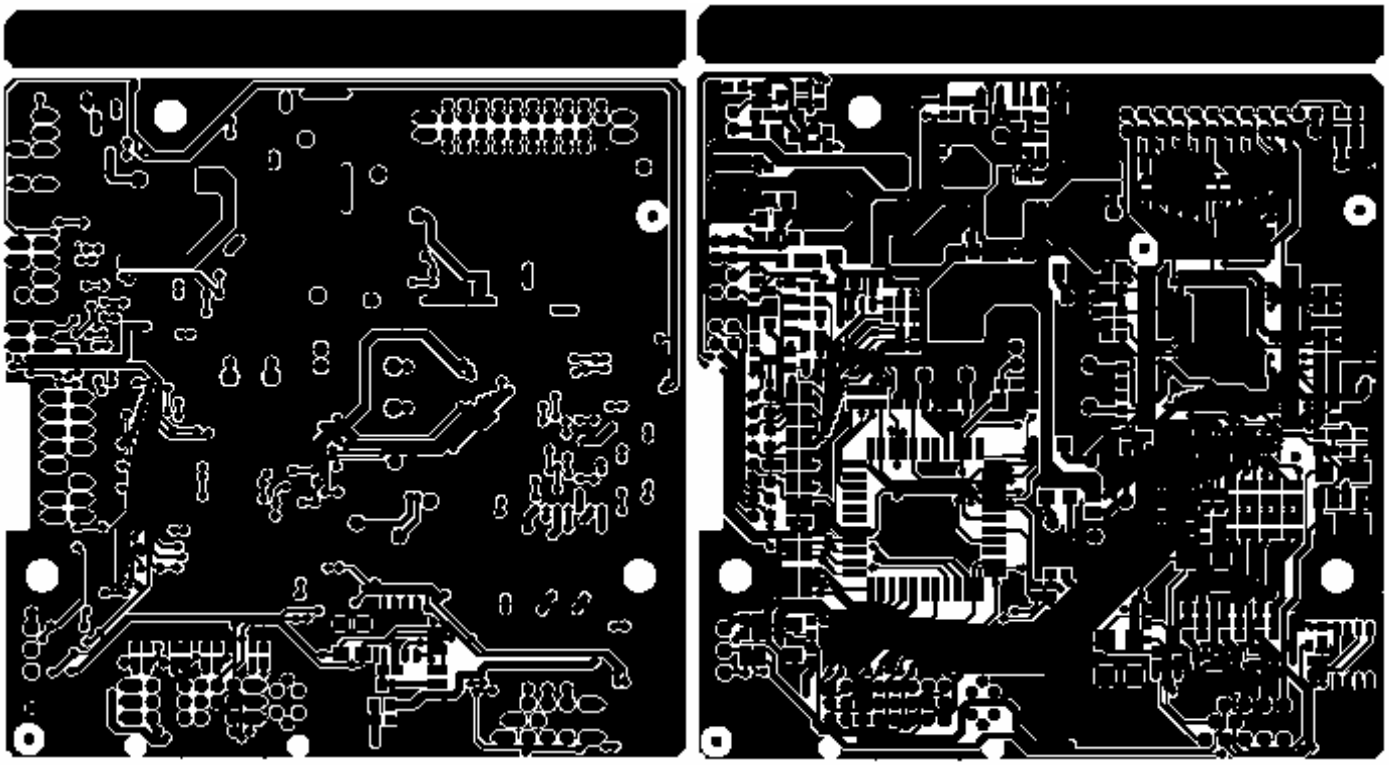
## 6.3 Key Pad Board

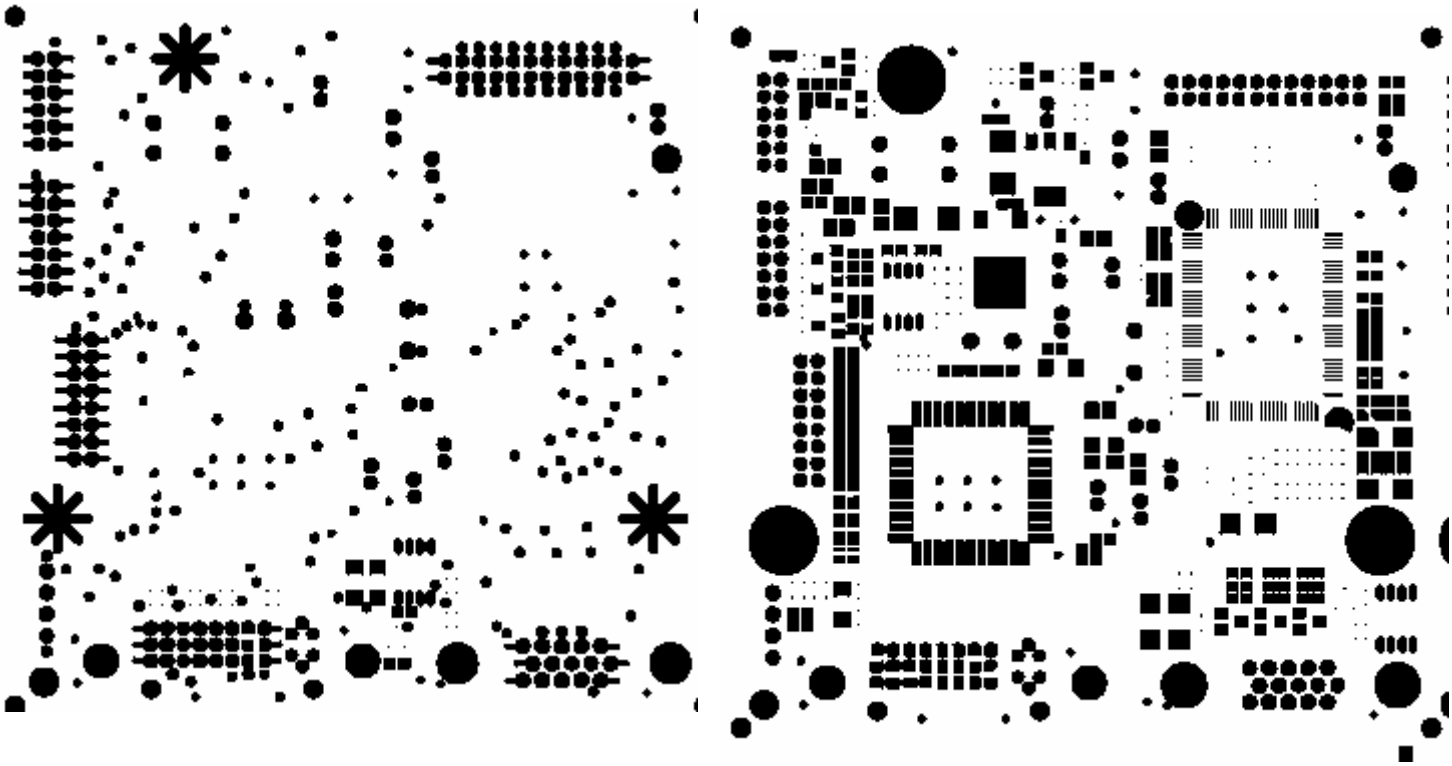



| | | | |
|---|---|---|---|
| AOC | | | |
| Title: Keypad | | | |
| Size: B | Document Number: gm5126 | | Rev: A |
| Date: 星期二, 七月 22, 2003 | Sheet 5 of 8 | | |

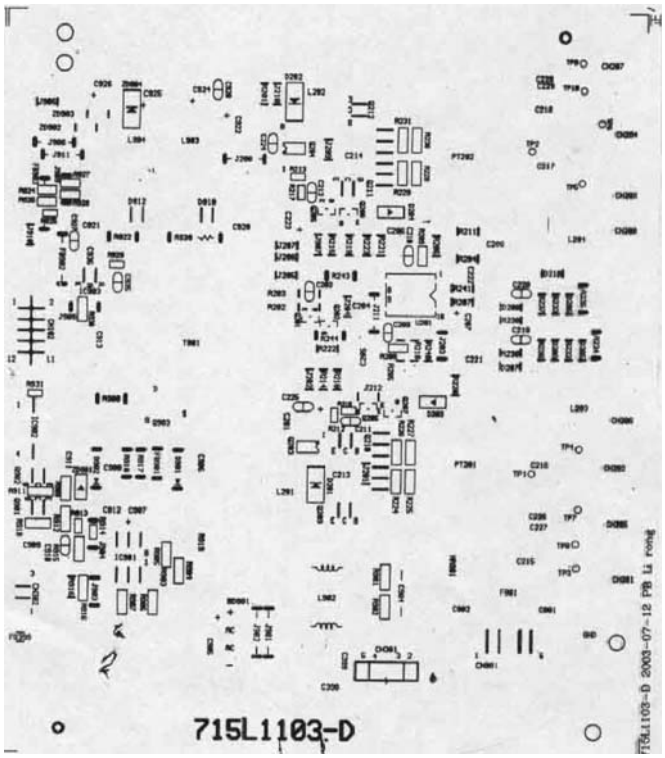
# 7. PCB Layout

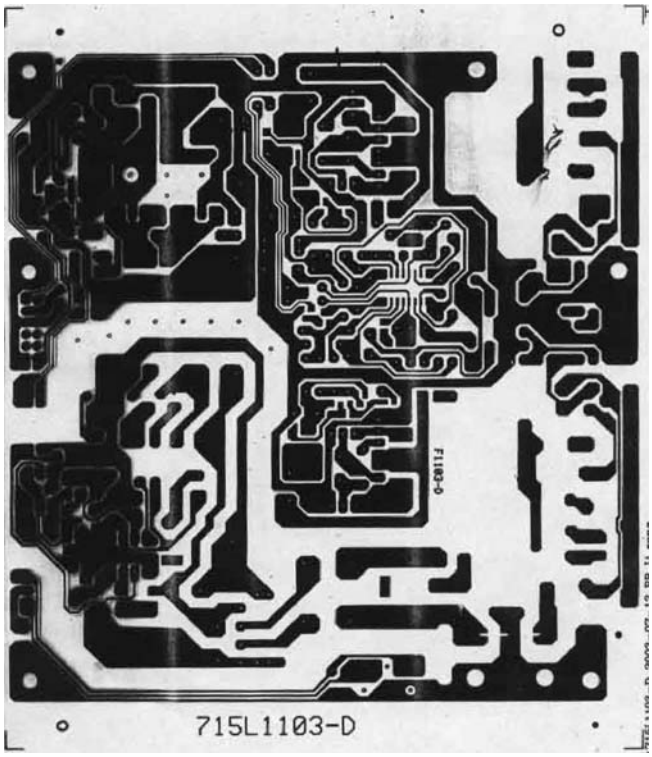
## 7.1 Main Board



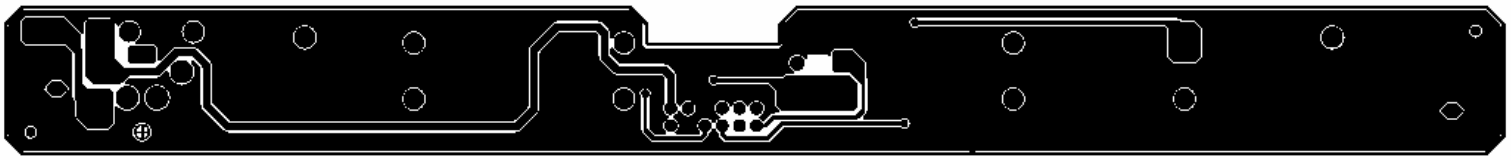


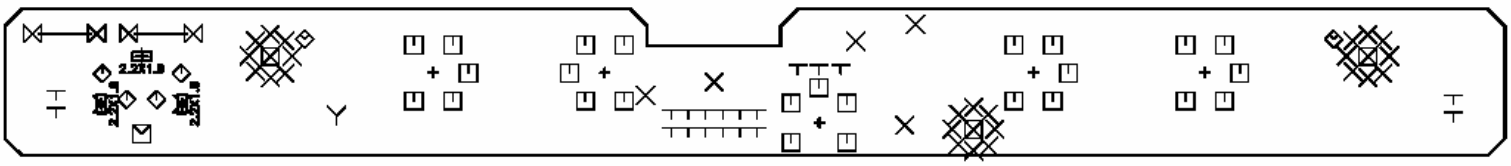
## 7.2 Inverter/Power Board




## 7.3 Keypad Board





# 8. Maintainability

## 8.1 Equirements and Tools Requirement

1.) Voltmeter.

2.) Oscilloscope.

3 ).Pattern Generator.

4) DDC Tool with a IBM Compatible Computer.

5) Alignment Tool.

6) LCD Color Analyzer.

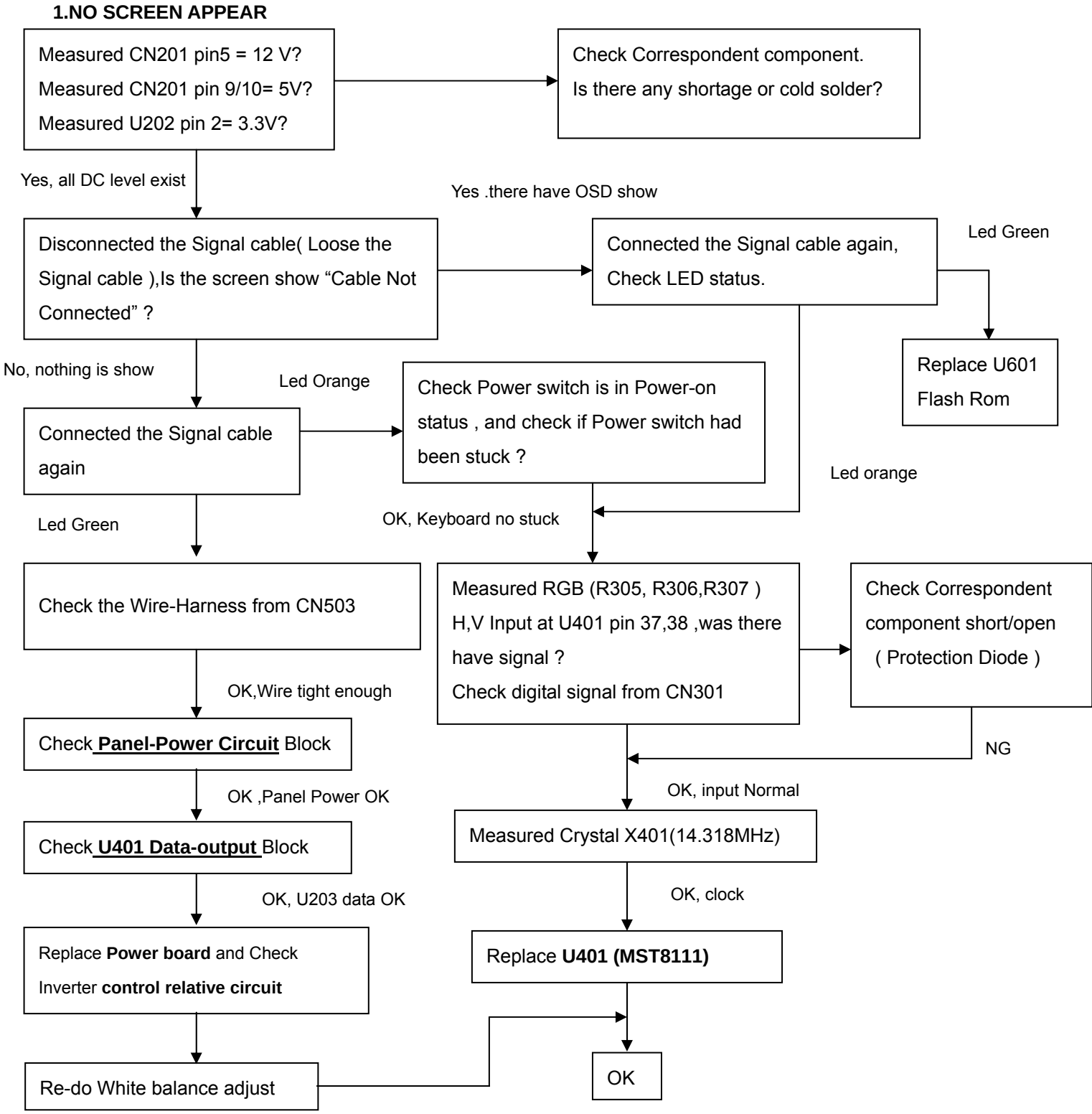
7) Service Manual.

8) User Manual.

# 8.2 Trouble Shooting

## 8.2.1 Main Board

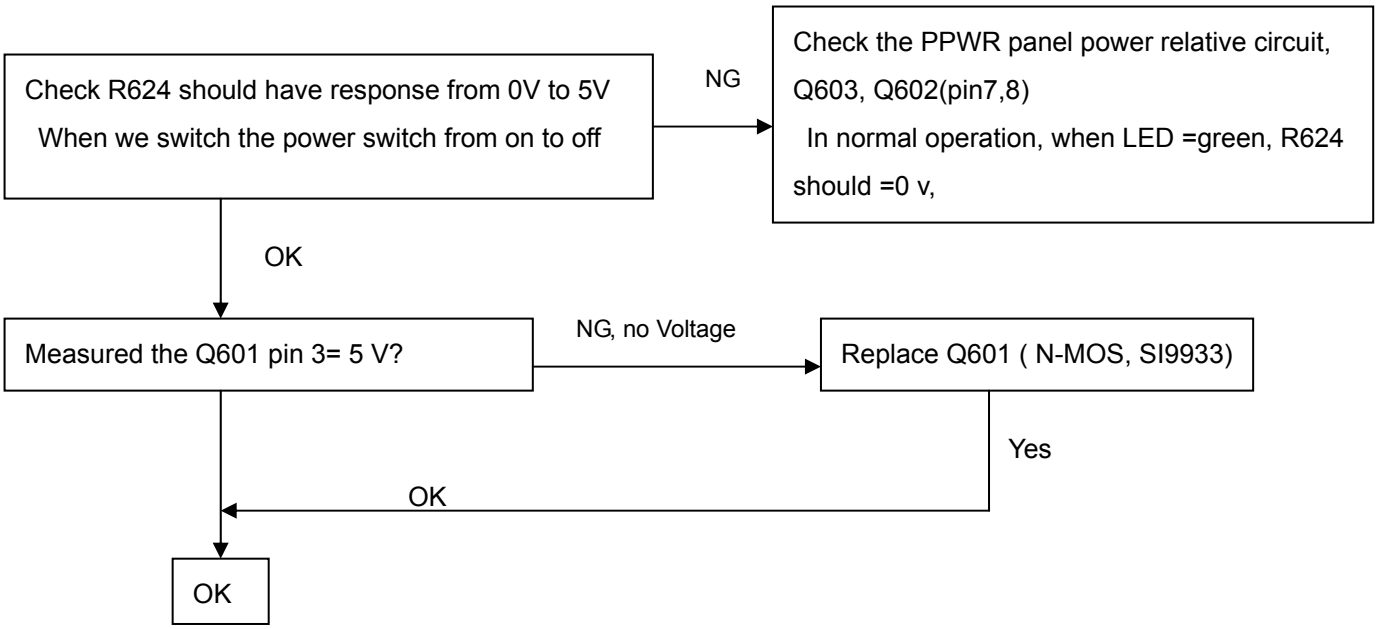
### 1.NO SCREEN APPEAR


1.NO SCREEN APPEAR
Measured CN201 pin5 = 12 V?
Measured CN201 pin 9/10= 5V?
Measured U202 pin 2= 3.3V?
Check Correspondent component.
Is there any shortage or cold solder?
Yes, all DC level exist
Yes .there have OSD show
Disconnected the Signal cable( Loose the Signal cable ),Is the screen show “Cable Not Connected” ?
Connected the Signal cable again, Check LED status.
Led Green
Replace U601 Flash Rom
No, nothing is show
Led Orange
Connected the Signal cable again
Check Power switch is in Power-on status , and check if Power switch had been stuck ?
Led orange
Led Green
OK, Keyboard no stuck
Check the Wire-Harness from CN503
Measured RGB (R305, R306,R307 ) H,V Input at U401 pin 37,38 ,was there have signal ?
Check digital signal from CN301
Check Correspondent component short/open ( Protection Diode )
OK,Wire tight enough
NG
Check Panel-Power Circuit Block
OK, input Normal
OK ,Panel Power OK
Measured Crystal X401(14.318MHz)
Check U401 Data-output Block
OK, clock
OK, U203 data OK
Replace Power board and Check Inverter control relative circuit
Replace U401 (MST8111)
Re-do White balance adjust
OK

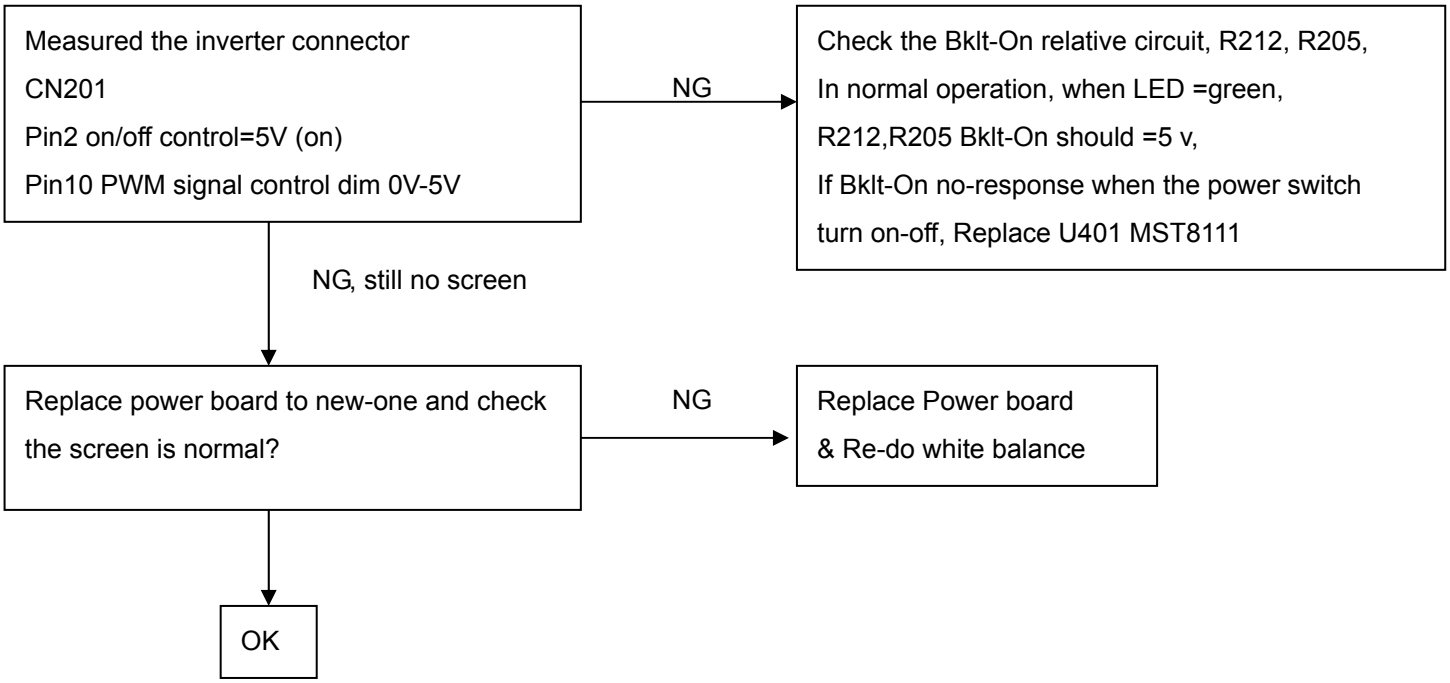
Note:1.If replace “**MAIN-BOARD**” , Please re-do “DDC-content” programmed & “WHITE-Balance”.

2. If replace “**Power Board**” only, Please re-do “ WHITE-Balance”

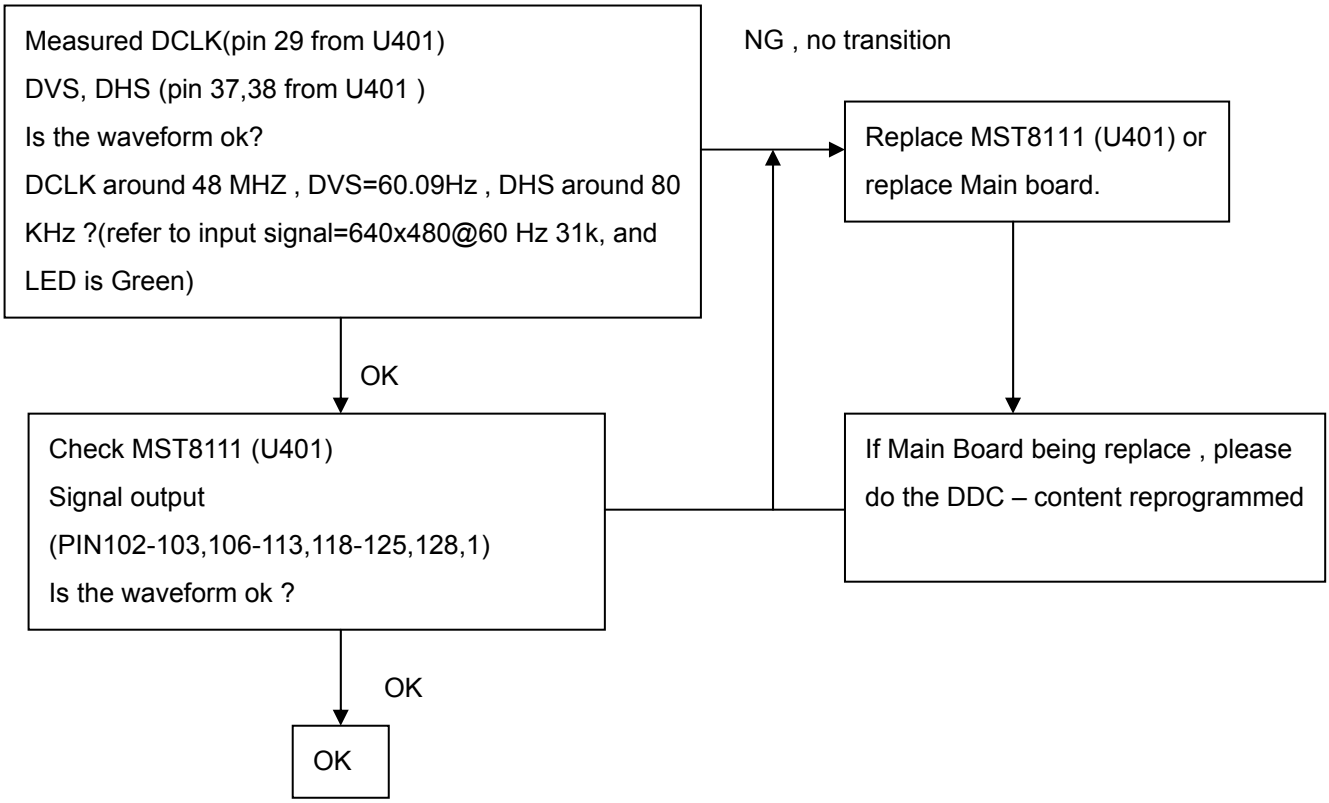
**2.PANEL POWER CIRCUIT**


Check R624 should have response from 0V to 5V
When we switch the power switch from on to off
NG
Check the PPWR panel power relative circuit, Q603, Q602(pin7,8)
In normal operation, when LED =green, R624 should =0 v,
OK
Measured the Q601 pin 3= 5 V?
NG, no Voltage
Replace Q601 ( N-MOS, SI9933)
Yes
OK
OK

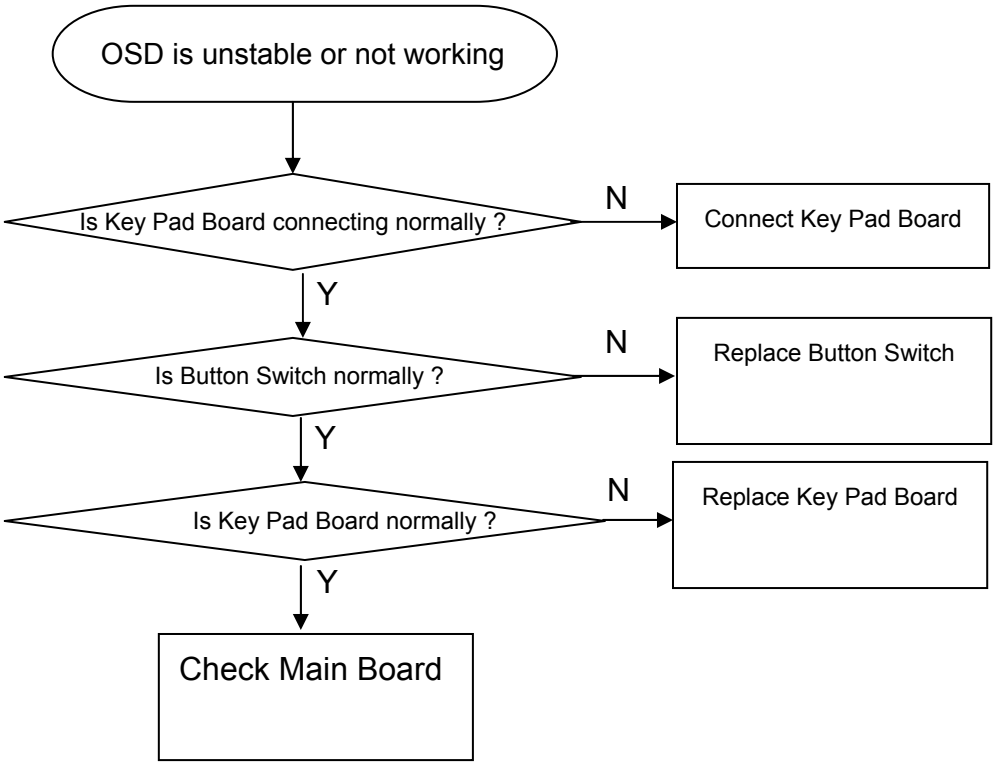
**3.INVERTER CONTROL RELATIVE CIRCUIT**


Measured the inverter connector
CN201
Pin2 on/off control=5V (on)
Pin10 PWM signal control dim 0V-5V
NG
Check the Bklt-On relative circuit, R212, R205,
In normal operation, when LED =green,
R212,R205 Bklt-On should =5 v,
If Bklt-On no-response when the power switch turn on-off, Replace U401 MST8111
NG, still no screen
Replace power board to new-one and check the screen is normal?
NG
Replace Power board
& Re-do white balance
OK

**4.U4-DATA OUTPUT**

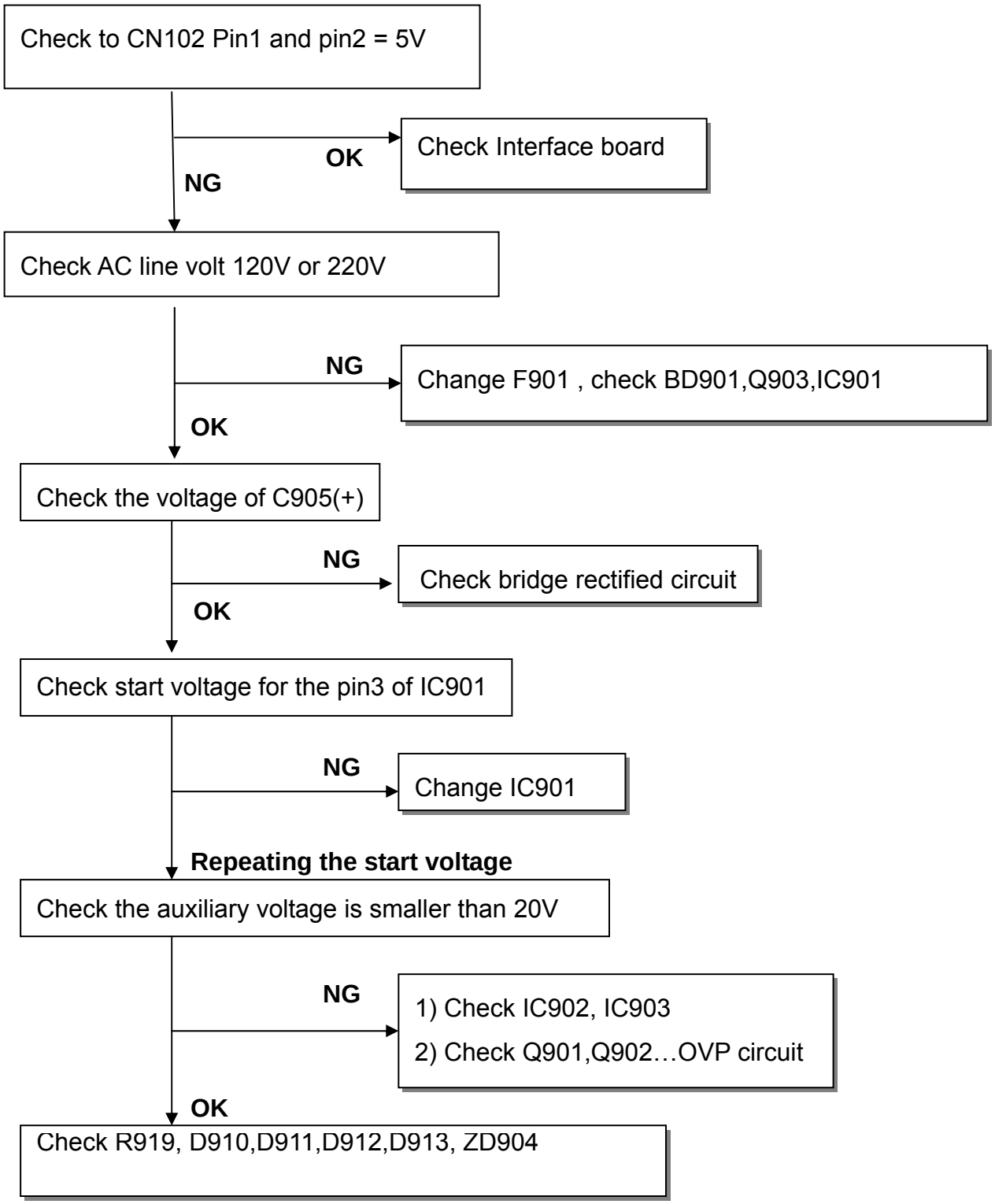

Measured DCLK(pin 29 from U401)
DVS, DHS (pin 37,38 from U401 )
Is the waveform ok?
DCLK around 48 MHZ , DVS=60.09Hz , DHS around 80 KHz ?(refer to input signal=640x480@60 Hz 31k, and LED is Green)
NG , no transition
Replace MST8111 (U401) or replace Main board.
OK
Check MST8111 (U401)
Signal output
(PIN102-103,106-113,118-125,128,1)
Is the waveform ok ?
If Main Board being replace , please do the DDC – content reprogrammed
OK
OK

## 8.2.2 KEYPAD BOARD

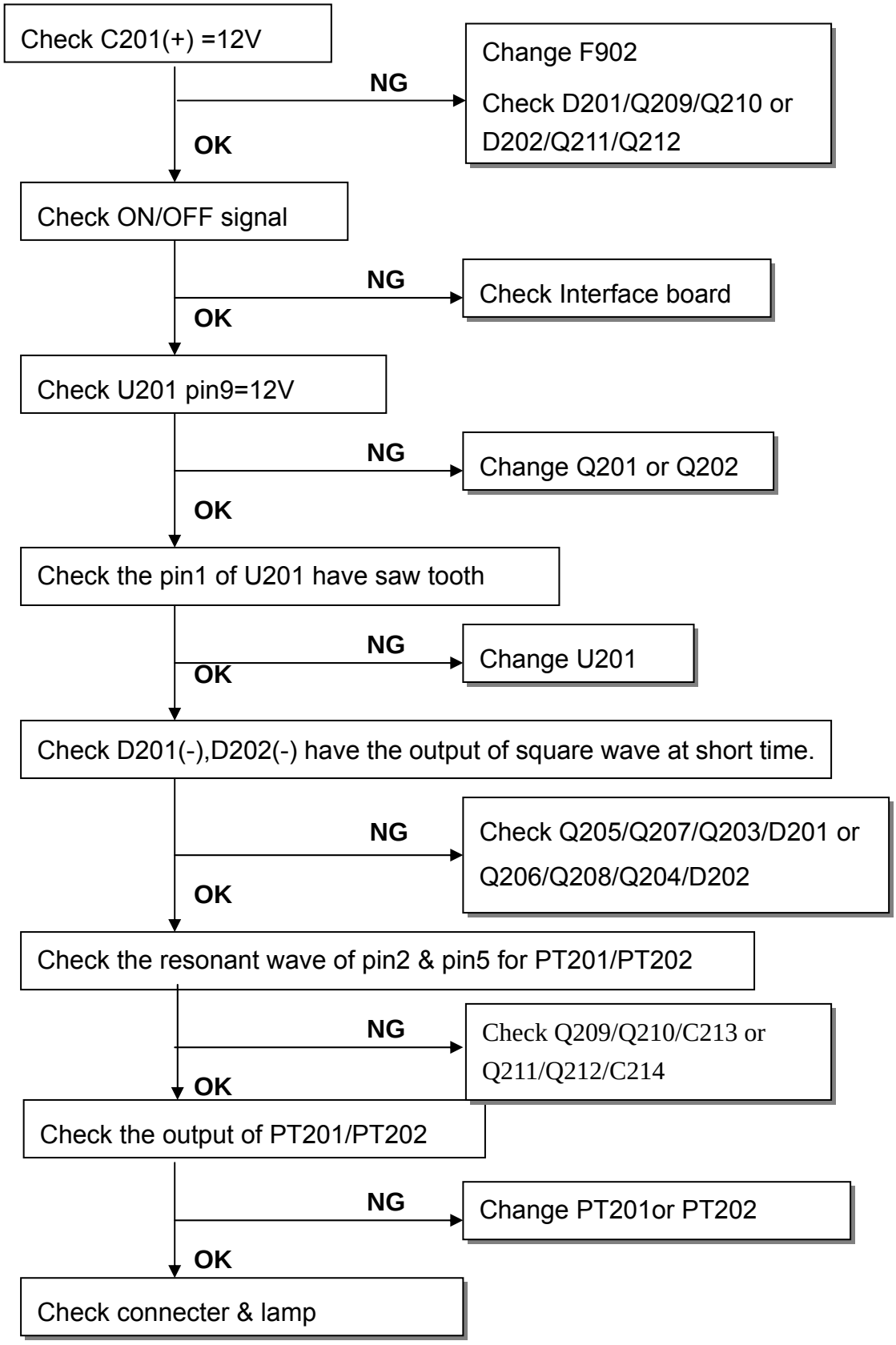


### 8.2.2 Power/Inverter Board

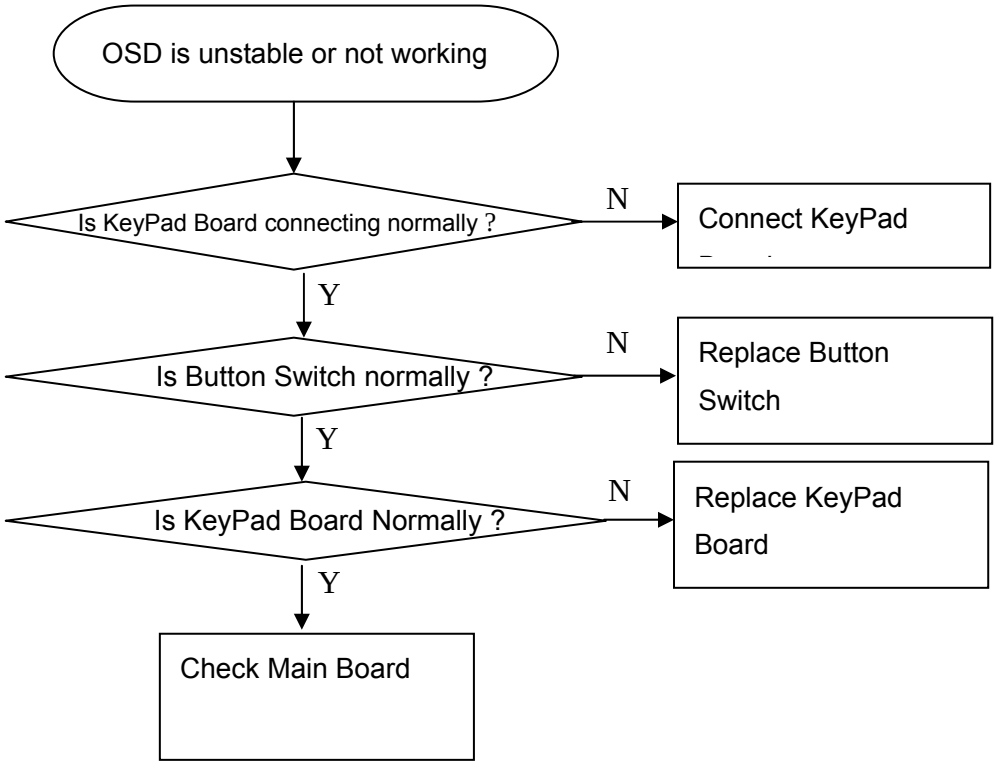
**1.) No power**



**2.) W / LED , No Backlight**



### 8.2.3 Key Pad Board



## 9. White-Balance, Luminance adjustment

**Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment**.

Before started adjust white balance ,please setting the Chroma-7120 **MEM. channel 1 to 6500** color, **MEM. channel 2 to 7800** color ( our 6500 parameter is x = 313 ±10, y = 329 ±10, Y = 200 ±10 cd/$m^2$ , 7200 parameter is x = 296 ±10, y = 311 ±10, Y = 200 ±10 cd/$m^2$)

How to setting MEM.channel you can reference to chroma 7120 user guide or simple use " **SC**" key and " **NEXT**" key to modify xyY value and use "**ID**" key to modify the TEXT description
Following is the procedure to do white-balance adjust

Press MENU button during 2 seconds along with press Power button will activate the factory mode, then MCU will do AUTO LEVEL automatically. Meanwhile press MENU the OSD screen will located at **left top of panel**.

### *I. Bias adjustment :*

1. Set the contrast to 70.
2. Sdjust the **Brightness** to 90.

### *II. Gain adjustment :*

Move cursor to "-Factory-" and press MENU key

a. Adjust 6500 color-temperature

1 Switch the chroma-7120 to **RGB-mode** (with press "MODE" button )
2 switch the MEM. Channel to Channel 01 ( with up or down arrow on chroma 7120 )
3 The LCD-indicator on chroma 7120 will show x = 313 ±10, y = 329 ±10, Y = 200 ±5 cd/$m^2$
4 Adjust the RED on OSD window until chroma 7120 indicator reached the value R=100
5 adjust the GREEN on OSD, until chroma 7120 indicator reached G=100
6 adjust the BLUE on OSD, until chroma 7120 indicator reached B=100
7 repeat above procedure ( item 5,6,7) until chroma 7120 RGB value meet the tolerance =100±2
8 Press Exit on OSD window to save the adjustment result

b. Adjust 7800 color-temperature

9 Switch the chroma-7120 to **RGB-mode** (with press “MODE” button )

10 switch the MEM.channel to Channel 02 ( with up or down arrow on chroma 7120 )

11 The LCD-indicator on chroma 7120 will show x = 296 ±10, y = 311 ±10, Y = 200 ±5 cd/$m^2$

12 Adjust the RED on OSD window until chroma 7120 indicator reached the value R=100

13 adjust the GREEN on OSD, until chroma 7120 indicator reached G=100

14 adjust the BLUE on OSD, until chroma 7120 indicator reached B=100

15 repeat above procedure ( item 5,6,7) until chroma 7120 RGB value meet the tolerance =100±2

16 Press Exit on OSD window to save the adjustment result

Turn the POWER-button off to on to quit from factory mode.

**10. EDIT Content**

D-SUB Connector(Analog)

| | x0 | x1 | x2 | x3 | x4 | x5 | x6 | x7 | x8 | x9 | xA | xB | xC | xD | xE | xF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 00 | FF | FF | FF | FF | FF | FF | 00 | 16 | 09 | 84 | E7 | 0B | 95 | 0D | 00 |
| 16: | 1F | 0D | 01 | 03 | 68 | 22 | 1B | 8A | 2A | BE | 30 | A6 | 51 | 4C | 99 | 27 |
| 32: | 1B | 50 | 54 | BF | EF | 00 | 81 | 80 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| 48: | 01 | 01 | 01 | 01 | 01 | 01 | 30 | 2A | 00 | 98 | 51 | 00 | 2A | 40 | 30 | 70 |
| 64: | 13 | 00 | 78 | 2D | 11 | 00 | 00 | 1E | 00 | 00 | 00 | FF | 00 | 31 | 32 | 33 |
| 80: | 34 | 35 | 36 | 37 | 38 | 39 | 30 | 31 | 32 | 33 | 00 | 00 | 00 | FD | 00 | 37 |
| 96: | 4B | 1E | 53 | 0E | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 112 | 00 | 45 | 4E | 37 | 32 | 32 | 30 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 17 |

Note: Byte 0C, 0D, 0E, 0F means Serial No. Byte 10, 11 means Manufacture Time. Byte 7F means checksum

# 11.BOM LIST

## T782KQXNK6E1N

| 插入位置 | 元件料号 | 品名规格 | 用量 | 单位 |
|---|---|---|---|---|
| | CBPC780KQXEN | CONVERSION BOARD | 1 | PCS |
| | KEPC780KB8 | KEY BOARD FOR T780K* | 1 | PCS |
| | PWPC7425A3E1 | POWER BOARD | 1 | PCS |
| | 7L 1 34 | WOODEN PALLET | 0.01 | PCS |
| | 7L 1 35 | WOODEN PALLET | 0.01 | PCS |
| | 11L6038 2 | CABLE HOOK | 1 | PCS |
| | 15L5851503 | MAIN FRAME | 1 | PCS |
| | 15L5908 1 | BRACKET | 1 | PCS |
| | 19L6006 1 | STAND CLIP | 1 | PCS |
| | 26L 800673 1A | ENVISION BARCODE LABEL | 1 | PCS |
| | 33L4651 GM L | BUTTON FUNCTION | 1 | PCS |
| | 33L4652 1 | LENS POWER | 1 | PCS |
| | 33L4654 GM L | COVER | 1 | PCS |
| | 33L4678 GN X | UTILITY CUP R/L | 2 | PCS |
| | 33L4679 GM X | CLIP | 2 | PCS |
| | 34L1197AGN L | BEZEL | 1 | PCS |
| | 34L1198AGM 2L | REAR COVER | 1 | PCS |
| | 40L 154501 1 | HI-POT GND LABEL FOR MO | 1 | PCS |
| | 40L 190673 4A | ID LABEL | 1 | PCS |
| | 40L 459673 1A | BARBETTE LABEL | 1 | PCS |
| | 40L 459673 2A | FRONT LABEL FOR En7220 | 1 | PCS |
| | 40L 459673 3A | CONNER LABEL FOR En7220 | 1 | PCS |
| | 40L 459673 4A | BASE LABEL FOR En7220 | 1 | PCS |
| | 40L 459786 5A | CANTION LABEL FOR AL172 | 1 | PCS |
| | 40L 581 26704 | 唛头纸 FOR CARTON/PALLET | 0.01 | PCS |
| | 41L 68508 A | 管制卡 | 0.1 | PCS |
| | 41L780061513B | INPUT NOT SUPPORT CARD | 1 | PCS |
| | 41L780067319B | QSG | 1 | PCS |
| | 41L780067324A | Envision Envelop | 1 | PCS |
| | 41L780067329A | WARRANTY CARD | 1 | PCS |
| | 41L780067330B | Envision -kensington Ca | 1 | PCS |
| | 41L780067331B | WARRANTY CARD | 1 | PCS |
| | 44L3231 15 | EVA WASHER | 2 | PCS |
| | 44L3718673 1D | CARTON | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| | 44L3725 1 | EPS(L) | 1 | PCS |
| | 44L3725 2 | EPS(R) | 1 | PCS |
| | 44L9003 1 | CORNER PAPER | 0.08 | PCS |
| | 45L 76 28 C | PE Bag For Manual | 1 | PCS |
| | 45L 76 31 C | PE BAG FOR BASE | 1 | PCS |
| | 45L 77 3 | 打包膜 | 173 | CM |
| | 45L 77500 | BARCODE RIBBON | 19 | CM |
| | 45L 77501 | BARCODE RIBBON | 0.5 | CM |
| | 45L 88607 | PE BAG FOR MONITOR | 1 | PCS |
| | 45L 88609 B | EPE COVER | 1 | PCS |
| | 45L 88621 4 | PE BAY FOR LIFT | 1 | PCS |
| | 50L 600 2 | HANDLE1 | 1 | PCS |
| | 50L 600 3 | HANDLE2 | 1 | PCS |
| | 52L 1150 C | 白胶带 WHITE TAPE | 10 | CM |
| | 52L 1185 | MIDDLE TAPE FOR CARTON | 92 | CM |
| | 52L 1186 | SMALL TAPE | 8 | CM |
| | 52L 1207 A | ALUMINIUM TAPE | 2 | PCS |
| | 52L 1208 A | ALUMINIUM TAPE | 2 | PCS |
| | 52L6020 1 | PROTECT FILM | 0 | PCS |
| | 52L6025 11587 | MYLAR 138X144 | 1 | PCS |
| | 52L6025 11588 | MYLAR 120X100 | 1 | PCS |
| | 70L1700673 1D | CD MANUAL | 1 | PCS |
| | 85L 635502 | MAIN SHIELD | 1 | PCS |
| | 89L1735GAA D1 | SIGNAL CABLE | 1 | PCS |
| | 89L402A18N IS | POWER CORD | 1 | PCS |
| | 95L8018 30 26 | HARNESS 110MM 24P-30P | 1 | PCS |
| | 95L8021 12 1 | HARNESS 12P 60mm | 1 | PCS |
| | M1L 140 10120 | SCREW M4X10 | 4 | PCS |
| | M1L 330 4128 | SCREW M3X4 | 1 | PCS |
| | M1L1130 6128 | SCREW | 4 | PCS |
| | M1L1130 6128 | SCREW | 4 | PCS |
| | M1L1140 6128 | SCREW 4X6 | 1 | PCS |
| | M1L1730 6128 | SCREW M3x6 | 4 | PCS |
| | Q1L1030 8120 | SCREW 3X8 NI | 6 | PCS |
| | Q1L1030 8120 | SCREW 3X8 NI | 3 | PCS |
| | 750LLQ70L07 | QDI 17" PANEL | 1 | PCS |
| | W33L4653 GM L | VESA-COVER | 1 | PCS |
| | 705L782KB34072 | BACK COVER ASS'Y | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : | CONVERSION BOARD | | |

| | | | | |
|---|---|---|---|---|
| | CBPC780KQXEN | | | |
| ----- | ---------- | ---------- | ---------- | --- |
| | AIC780KQXEN | MAIN BOARD | 1 | PCS |
| CN201 | 33L800912K H | 2*6PIN DUAL ROW RIGHT | 1 | PCS |
| CN503 | 33L801724A H | PIN HEADER 24P 2.0mm | 1 | PCS |
| CN602 | 33L8027 16 | WAFER 16PIN 2.0mm DIP | 1 | PCS |
| | 40L 457624 1B | CPU LABEL | 1 | PCS |
| | 40L 45762412A | CBPC LABEL | 1 | PCS |
| | 44L3231508505 | 导电泡棉 | 1 | PCS |
| U601 | 56L1125137QT3 | W78E65P-40 BY WINBOND | 1 | PCS |
| C202 | 67L215B221 4H | LOW ESR 220UF 25V 8*11 | 1 | PCS |
| C204 | 67L215B221 4H | LOW ESR 220UF 25V 8*11 | 1 | PCS |
| CN301 | 88L 35315FHAS | D-SUB 15PIN | 1 | PCS |
| X401 | 93L 22 53 | CRYSTAL 14.318MHzHC-49U | 1 | PCS |
| X601 | 93L 22 55 H | 20MHZ | 1 | PCS |
| X601 | 93L 22 55 J | 20MHZ | 0 | PCS |
| U401 | 56L 562 49 | MST8111A PQFP-128 | 1 | PCS |
| U202 | 56L 563 21 | AP1084K33 | 1 | PCS |
| U201 | 56L 585 5A | AP1117E25A | 1 | PCS |
| U301 | 56L1133 34 | M24C02-WMN6T SMT | 1 | PCS |
| U602 | 56L1133516 | M24C16-WMN6T | 1 | PCS |
| Q201 | 57L 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q202 | 57L 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q204 | 57L 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q601 | 57L 417 6 | PMBS3906/PHILIPS-SMT(06 | 1 | PCS |
| Q602 | 57L 417 6 | PMBS3906/PHILIPS-SMT(06 | 1 | PCS |
| Q603 | 57L 417 6 | PMBS3906/PHILIPS-SMT(06 | 1 | PCS |
| Q203 | 57L 763 1 | A03401 SOT23 BY AOS(A1) | 1 | PCS |
| RN601 | 61L 125103 8 | CHIP AR 8P4R 10KOHM +-5 | 1 | PCS |
| RN602 | 61L 125103 8 | CHIP AR 8P4R 10KOHM +-5 | 1 | PCS |
| FB301 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| FB302 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| FB303 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R209 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R502 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R620 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R621 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R622 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R623 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| R624 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R301 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R302 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R303 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R305 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R306 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R307 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R309 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R312 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R315 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R316 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R608 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R609 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R634 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R635 | 61L0603101 | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R203 | 61L0603102 | CHIPR 1K OHM +-5% 1/10W | 1 | PCS |
| R310 | 61L0603102 | CHIPR 1K OHM +-5% 1/10W | 1 | PCS |
| R311 | 61L0603102 | CHIPR 1K OHM +-5% 1/10W | 1 | PCS |
| R202 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R204 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R206 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R208 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R211 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R308 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R314 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R317 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R318 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R601 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R602 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R603 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R604 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R605 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R606 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R607 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R613 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R614 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R615 | 61L0603103 | CHIPR 10K OHM +-5% 1/10 | 1 | PCS |
| R313 | 61L0603222 | CHIPR 2.2K OHM+-5% 1/10 | 1 | PCS |
| R403 | 61L0603390 0F | CHIP 390 OHM 1/10W 1% | 1 | PCS |
| R304 | 61L0603471 | CHIPR 470 OHM+-5% 1/10W | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| R617 | 61L0603471 | CHIPR 470 OHM+-5% 1/10W | 1 | PCS |
| R618 | 61L0603471 | CHIPR 470 OHM+-5% 1/10W | 1 | PCS |
| R628 | 61L0603471 | CHIPR 470 OHM+-5% 1/10W | 1 | PCS |
| R201 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R205 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R207 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R212 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R616 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R619 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R629 | 61L0603472 | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R325 | 61L0603750 | CHIPR 75 OHM+-5% 1/10W | 1 | PCS |
| R326 | 61L0603750 | CHIPR 75 OHM+-5% 1/10W | 1 | PCS |
| R327 | 61L0603750 | CHIPR 75 OHM+-5% 1/10W | 1 | PCS |
| C307 | 65L0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C606 | 65L0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C607 | 65L0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C608 | 65L0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C609 | 65L0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C610 | 65L0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C201 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C203 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C205 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C207 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C210 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C212 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C214 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C216 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C313 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C401 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C404 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C406 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C407 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C408 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C409 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C410 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C411 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C412 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C413 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C415 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C416 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| C417 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C418 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C420 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C421 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C423 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C425 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C426 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C428 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C510 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C511 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C601 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C605 | 65L0603104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C402 | 65L0603220 31 | CHIP 22PF 50V NPO | 1 | PCS |
| C403 | 65L0603220 31 | CHIP 22PF 50V NPO | 1 | PCS |
| C602 | 65L0603220 31 | CHIP 22PF 50V NPO | 1 | PCS |
| C604 | 65L0603220 31 | CHIP 22PF 50V NPO | 1 | PCS |
| C312 | 65L0603221 31 | CAP:CER 220PF 5% 50V SM | 1 | PCS |
| C311 | 65L0603330 31 | 33PF+-5% 50V NPO | 1 | PCS |
| C304 | 65L0603473 32 | CHIP 0.047UF 50V X7R | 1 | PCS |
| C305 | 65L0603473 32 | CHIP 0.047UF 50V X7R | 1 | PCS |
| C306 | 65L0603473 32 | CHIP 0.047UF 50V X7R | 1 | PCS |
| C308 | 65L0603473 32 | CHIP 0.047UF 50V X7R | 1 | PCS |
| C309 | 65L0603473 32 | CHIP 0.047UF 50V X7R | 1 | PCS |
| C310 | 65L0603473 32 | CHIP 0.047UF 50V X7R | 1 | PCS |
| C206 | 65L0805105 22 | CHIP 1UF 25V X7R 0805 | 1 | PCS |
| C208 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C405 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C414 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C419 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C422 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C424 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C427 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C603 | 67L 312100 3 | SMD 10uf +-20% 16V | 1 | PCS |
| C509 | 67L 312220 3 | SMD 22UF +-20% 16V | 1 | PCS |
| C211 | 67L 312470 3 | SMD 47UF +-20% 16V | 1 | PCS |
| C215 | 67L 312470 3 | SMD 47UF +-20% 16V | 1 | PCS |
| FB304 | 71L 56G151 | CHIP BEAD 150 OHM | 1 | PCS |
| FB201 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |
| FB401 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |
| FB402 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| FB403 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |
| FB404 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |
| FB405 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |
| FB406 | 71L 56Z601 | CHIP BEAD 600 OHM 0805 | 1 | PCS |
| U601 | 87L 202 44 | PLCC SMT CONN<br>PD41C-441 | 1 | PCS |
| D317 | 93L 39147 | TZMC5V6-GS08 | 1 | PCS |
| D318 | 93L 39147 | TZMC5V6-GS08 | 1 | PCS |
| D319 | 93L 39147 | TZMC5V6-GS08 | 1 | PCS |
| D320 | 93L 39147 | TZMC5V6-GS08 | 1 | PCS |
| D321 | 93L 39147 | TZMC5V6-GS08 | 1 | PCS |
| D304 | 93L 60230 | BAT54C(L43) | 1 | PCS |
| D301 | 93L 64 33 | BAV99 | 1 | PCS |
| D302 | 93L 64 33 | BAV99 | 1 | PCS |
| D303 | 93L 64 33 | BAV99 | 1 | PCS |
| D601 | 93L 6432V | LL4148-GS08 | 1 | PCS |
| D201 | 93L1004 3 | SS14 | 1 | PCS |
| D202 | 93L1020 1 S | GS1D ? P | 1.0000<br>P | CS |
| | 715L1150 B | MAIN BOARD PCB | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : KEPC780KB8 | KEY BOARD FOR T780K* | | |
| ----- | ---------- | ---------- | ---------- | --- |
| SW101 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW102 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW103 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW104 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW105 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| DP101 | 81L 12 1 GP | LED | 1 | PCS |
| JP101 | 95L8014 16505 | HARNESS | 1 | PCS |
| | 715L 977 1 19 | PCB | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : PWPC7425A3E1 | POWER BOARD | | |
| ----- | ---------- | ---------- | ---------- | --- |
| | PW7425A3E1SMT | POWRE BOARD FOR SMT | 1 | PCS |
| | PWPC7425A3E1AI | POWER BOARD | 1 | PCS |
| CN102 | 33L800912A | HEADER 2*6P | 1 | PCS |
| CN201 | 33L8021 2D E | WAFER | 0 | PCS |
| CN202 | 33L8021 2D E | WAFER | 0 | PCS |
| CN203 | 33L8021 2D E | WAFER | 0 | PCS |

| | | | | |
|---|---|---|---|---|
| CN204 | 33L8021 2D E | WAFER | 0 | PCS |
| CN201 | 33L8021 2D U | CONN.2P DIP R/A LM401-0 | 0 | PCS |
| CN202 | 33L8021 2D U | CONN.2P DIP R/A LM401-0 | 0 | PCS |
| CN203 | 33L8021 2D U | CONN.2P DIP R/A LM401-0 | 0 | PCS |
| CN204 | 33L8021 2D U | CONN.2P DIP R/A LM401-0 | 0 | PCS |
| CN201 | 33L8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| CN202 | 33L8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| CN203 | 33L8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| CN204 | 33L8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| | 40L 45762412A | CBPC LABEL | 1.03 | PCS |
| | 44L3521 3EPE | EPE | 0 | PCS |
| | 44L600029A | CARTON | 0 | PCS |
| | 51L 6 4500 | RTV 濺 | 2 | G |
| | 51L 6 4502 | RTV 濺 | 0 | G |
| | 51L 6 4503 | RTV 濺 | 0 | G |
| IC902 | 56L 139 3 | PC123FY2 BY SHARP | 0 | PCS |
| IC902 | 56L 139 3A | PC123Y22 | 1 | PCS |
| IC902 | 56L 139 3B | PC123 Y82 | 0 | PCS |
| IC901 | 56L 379 32 | SG6841D BY SYSTEM | 1 | PCS |
| Q209 | 57L 761 6 | 2SC5706 DIP SANYO | 1 | PCS |
| Q210 | 57L 761 6 | 2SC5706 DIP SANYO | 1 | PCS |
| Q211 | 57L 761 6 | 2SC5706 DIP SANYO | 1 | PCS |
| Q212 | 57L 761 6 | 2SC5706 DIP SANYO | 1 | PCS |
| R919 | 61L 2J39864B | 0.39OHM 5% 2W | 1 | PCS |
| NR901 | 61L 58080 WT | 8 OHM NCTR | 1 | PCS |
| R903 | 61L152M104 64 | 100KOHM 5% 2W | 1 | PCS |
| C904 | 63L 107474 5S | 0.47UF +-10% 250VAC | 0 | PCS |
| C904 | 63L 107474 HS | 0.47UF +-10% 250VAC | 1 | PCS |
| C904 | 63L 10747410S | 0.47UF +-10% 250VAC | 0 | PCS |
| C213 | 63L210J2242A2 | PMS 0.22UF 250V | 1 | PCS |
| C214 | 63L210J2242A2 | PMS 0.22UF 250V | 1 | PCS |
| C213 | 64L180J224AAT | CAP 0.22UF 160V R79 | 0 | PCS |
| C214 | 64L180J224AAT | CAP 0.22UF 160V R79 | 0 | PCS |
| C906 | 65L 2K152 5E6052 | 1500 PF 10% 2KV Y5P | 0 | PCS |
| C906 | 65L 2K152 5E6285 | 1500 PF 10% 2KV Y5P | 0 | PCS |
| C906 | 65L 2K152 5E6921 | 1500 PF 10% 2KV Y5P | 1 | PCS |
| C215 | 65L 3J2206EM | 22PF 5% 3KV MURATA | 0 | PCS |
| C216 | 65L 3J2206EM | 22PF 5% 3KV MURATA | 0 | PCS |
| C217 | 65L 3J2206EM | 22PF 5% 3KV MURATA | 0 | PCS |
| C218 | 65L 3J2206EM | 22PF 5% 3KV MURATA | 0 | PCS |

| | | | | |
|---|---|---|---|---|
| C215 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C216 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C217 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C218 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C901 | 65L305M2222B2 | 2200PF 400VAC/250VAC | 0 | PCS |
| C902 | 65L305M2222B2 | 2200PF 400VAC/250VAC | 0 | PCS |
| C901 | 65L305M2222E3 | 2200PF+-20%400VAC BY TD | 1 | PCS |
| C902 | 65L305M2222E3 | 2200PF+-20%400VAC BY TD | 1 | PCS |
| C901 | 65L305M2222EM | 2200PF+-20% 250VAC/400V | 0 | PCS |
| C902 | 65L305M2222EM | 2200PF+-20% 250VAC/400V | 0 | PCS |
| C913 | 65L306M472 2B | 4700PF 400V 20% Y1-CAP | 0 | PCS |
| C913 | 65L306M4722B2 | 4700PF +-20% 400VAC Y1 | 1 | PCS |
| C922 | 67L 215102 3H | 1000UF +-20% 16V | 1 | PCS |
| C925 | 67L 215102 3H | 1000UF +-20% 16V | 1 | PCS |
| C922 | 67L 215102 3K | 1000UF +-20% 16V | 0 | PCS |
| C925 | 67L 215102 3K | 1000UF +-20% 16V | 0 | PCS |
| C905 | 67L305S10114H | 100UF +-20% 400V | 1 | PCS |
| FB901 | 71L 55 29 | FERRITE BEAD | 1 | PCS |
| L902 | 73L 174 26 LS | COMMON CHOKE | 0 | PCS |
| L902 | 73L 174 26 T1 | LINE LILTER 0.45mm | 1 | PCS |
| L203 | 73L 174 30 H | FILTER 500MH HA | 0 | PCS |
| L204 | 73L 174 30 H | FILTER 500MH HA | 0 | PCS |
| L203 | 73L 174 30 LS | FILTER | 0 | PCS |
| L204 | 73L 174 30 LS | FILTER | 0 | PCS |
| L203 | 73L 174 30 YS | FILTER | 1 | PCS |
| L204 | 73L 174 30 YS | FILTER | 1 | PCS |
| L903 | 73L 253 91 L | CHOKE BY LI TA | 1 | PCS |
| L904 | 73L 253 91 L | CHOKE BY LI TA | 1 | PCS |
| L903 | 73L 253 91 LS | CHOKE BY LI SHIN | 0 | PCS |
| L904 | 73L 253 91 LS | CHOKE BY LI SHIN | 0 | PCS |
| L201 | 73L 253139 LL | CHOKE COIL | 1 | PCS |
| L202 | 73L 253139 LL | CHOKE COIL | 1 | PCS |
| L201 | 73L 253139 YL | CHOKE | 0 | PCS |
| L202 | 73L 253139 YL | CHOKE | 0 | PCS |
| L201 | 73L 253139LSL | CHOKE COIL | 0 | PCS |
| L202 | 73L 253139LSL | CHOKE COIL | 0 | PCS |
| PT201 | 80LL15T 7 DN | X'FMR | 0 | PCS |
| PT202 | 80LL15T 7 DN | X'FMR | 0 | PCS |
| PT201 | 80LL15T 7 YS | X'FMR | 1 | PCS |
| PT202 | 80LL15T 7 YS | X'FMR | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| T901 | 80LL17T 2 L | ADAPTOR BY LITAI | 0 | PCS |
| T901 | 80LL17T 2 T | X'FMR | 1 | PCS |
| T901 | 80LL17T 2 LS | ADAPTOR BY LISHIN | 0 | PCS |
| F901 | 84L 53 1 | FUSE 2A 250V LF-230002 | 1 | PCS |
| F901 | 84L 7H200 NL | FUSE 2Z 250V HL-50T 2A | 0 | PCS |
| F901 | 84L 7H200 SL | 250V/2A LIHEL FUSE | 0 | PCS |
| BD901 | 93L 50460 8 | BRIDGE 2KBP06M2A600V | 1 | PCS |
| | 705L 780 57 01 | Q903 ASS'Y | 1 | PCS |
| | 705L 780 57 02 | CN901 ASS'Y | 1 | PCS |
| | 705L 780 57 15 | D910/D912 ASS'Y | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : PW7425A3E1SMT | POWRE BOARD FOR SMT | | |
| ----- | ---------- | ---------- | ---------- | --- |
| Q203 | 56L 566 10 | SI4431DY-T1-SMT | 0 | PCS |
| Q204 | 56L 566 10 | SI4431DY-T1-SMT | 0 | PCS |
| U201 | 56L 622 1 | BA9741F-SMT | 1 | PCS |
| Q203 | 56L 763 4 | RSS050P03 | 0 | PCS |
| Q204 | 56L 763 4 | RSS050P03 | 0 | PCS |
| Q205 | 57L 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q206 | 57L 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q207 | 57L 417 6 | PMBS3906/PHILIPS-SMT(06 | 1 | PCS |
| Q208 | 57L 417 6 | PMBS3906/PHILIPS-SMT(06 | 1 | PCS |
| Q202 | 57L 760 4 | DTA144WKA BY ROHM SMT(7 | 1 | PCS |
| Q201 | 57L 760 5 | DTC144WKA BY ROHM SMT(8 | 1 | PCS |
| Q203 | 57L 763 3 | AO4411 SO-8 BY AOS SMT | 1 | PCS |
| Q204 | 57L 763 3 | AO4411 SO-8 BY AOS SMT | 1 | PCS |
| R929 | 61L0603000 | CHIPR 0OHM +-5% 1/10W | 1 | PCS |
| R931 | 61L0603102 | CHIPR 1K OHM +-5% 1/10W | 1 | PCS |
| R216 | 61L0603221 | CHIPR 220 OHM+-5% 1/10W | 1 | PCS |
| R217 | 61L0603221 | CHIPR 220 OHM+-5% 1/10W | 1 | PCS |
| R925 | 61L0603362 | CHIP 3.6K OHM 1/10W | 1 | PCS |
| R212 | 61L0603392 | CHIP 3.9K OHM 1/10W | 1 | PCS |
| R213 | 61L0603392 | CHIP 3.9K OHM 1/10W | 1 | PCS |
| R927 | 61L0805102 | CHIPR 1K OHM +-5% 1/8W | 1 | PCS |
| R928 | 61L0805102 | CHIPR 1K OHM +-5% 1/8W | 1 | PCS |
| R926 | 61L0805242 | CHIP 2.4KOHM 1% 1/8W | 1 | PCS |
| R924 | 61L0805333 | CHIP 33KOHM 1% 1/8W | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| R208 | 61L0805472 | CHIRP 4.7K OHM +-5% 1/8 | 1 | PCS |
| R209 | 61L0805472 | CHIRP 4.7K OHM +-5% 1/8 | 1 | PCS |
| R912 | 61L1206101 | CHIP 100 OHM 5% 1/4W | 1 | PCS |
| R930 | 61L1206101 | CHIP 100 OHM 5% 1/4W | 1 | PCS |
| R915 | 61L1206103 | CHIP 10KOHM 5% 1/4W | 1 | PCS |
| R901 | 61L1206105 | CHIP 1MOHM 5% 1/4W | 1 | PCS |
| R902 | 61L1206105 | CHIP 1MOHM 5% 1/4W | 1 | PCS |
| R904 | 61L1206105 | CHIP 1MOHM 5% 1/4W | 1 | PCS |
| R905 | 61L1206105 | CHIP 1MOHM 5% 1/4W | 1 | PCS |
| R224 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R225 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R226 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R227 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R228 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R229 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R230 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R231 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R916 | 61L1206240 2F | CHIP 24KOHM1% 1/4W | 1 | PCS |
| R909 | 61L1206472 | CHIP 4.7KOHM 5% 1/4W | 1 | PCS |
| R910 | 61L1206472 | CHIP 4.7KOHM 5% 1/4W | 1 | PCS |
| R911 | 61L1206472 | CHIP 4.7KOHM 5% 1/4W | 1 | PCS |
| R906 | 61L1206754 | CHIP 750KOHM 5% 1/4W | 1 | PCS |
| R907 | 61L1206754 | CHIP 750KOHM 5% 1/4W | 1 | PCS |
| C910 | 65L0805104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C927 | 65L0805104 32 | CHIP 0.1UF 50V X7R | 1 | PCS |
| C203 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C209 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C210 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C211 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C212 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C219 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C220 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C224 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| C225 | 65L0805105 27 | CHIP 1UF 25V Y5V 0805 | 1 | PCS |
| D203 | 93L 39S 3 T | BZT52-C11 | 1 | PCS |
| D204 | 93L 39S 3 T | BZT52-C11 | 1 | PCS |
| D203 | 93L 39S 8 T | ZD RLZ11B ROHM | 0 | PCS |
| D204 | 93L 39S 8 T | ZD RLZ11B ROHM | 0 | PCS |
| ZD904 | 93L 39S 16 T | SML4737A/1 | 0 | PCS |
| ZD904 | 93L 39S 19 T | PTZ7.5B | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| ZD901 | 93L 39S 20 T | RLZ22B BY ROHM | 1 | PCS |
| D201 | 93L2004 1 | SMAL240LVXRO-SMT | 0 | PCS |
| D202 | 93L2004 1 | SMAL240LVXRO-SMT | 0 | PCS |
| D201 | 93L2004 3 | SSM24 | 0 | PCS |
| D202 | 93L2004 3 | SSM24 | 0 | PCS |
| D201 | 93L2004 2A | SR34 PAN JIT | 0 | PCS |
| D202 | 93L2004 2A | SR34 PAN JIT | 0 | PCS |
| D201 | 93L3004 1 | SMAL340XXXRO 3A 40V SMA | 0 | PCS |
| D202 | 93L3004 1 | SMAL340XXXRO 3A 40V SMA | 0 | PCS |
| D201 | 93L3004 2 | SR34 PAN JIT | 1 | PCS |
| D202 | 93L3004 2 | SR34 PAN JIT | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : PWPC7425A3E1AI | POWER BOARD | | |
| ----- | ---------- | ---------- | ---------- | --- |
| PT201 | 6L 31502 | 1.5MM RIVET | 2 | PCS |
| PT202 | 6L 31502 | 1.5MM RIVET | 2 | PCS |
| | 715L1103 D | PCB | 1 | PCS |
| FB903 | 95L 90 23 | TIN COATED | 0 | PCS |
| J201 | 95L 90 23 | TIN COATED | 0 | PCS |
| J202 | 95L 90 23 | TIN COATED | 0 | PCS |
| J203 | 95L 90 23 | TIN COATED | 0 | PCS |
| J204 | 95L 90 23 | TIN COATED | 0 | PCS |
| J205 | 95L 90 23 | TIN COATED | 0 | PCS |
| J206 | 95L 90 23 | TIN COATED | 0 | PCS |
| J207 | 95L 90 23 | TIN COATED | 0 | PCS |
| J208 | 95L 90 23 | TIN COATED | 0 | PCS |
| J209 | 95L 90 23 | TIN COATED | 0 | PCS |
| J210 | 95L 90 23 | TIN COATED | 0 | PCS |
| J211 | 95L 90 23 | TIN COATED | 0 | PCS |
| J212 | 95L 90 23 | TIN COATED | 0 | PCS |
| J901 | 95L 90 23 | TIN COATED | 0 | PCS |
| J902 | 95L 90 23 | TIN COATED | 0 | PCS |
| J903 | 95L 90 23 | TIN COATED | 0 | PCS |
| J904 | 95L 90 23 | TIN COATED | 0 | PCS |
| J905 | 95L 90 23 | TIN COATED | 0 | PCS |
| J906 | 95L 90 23 | TIN COATED | 0 | PCS |
| J907 | 95L 90 23 | TIN COATED | 0 | PCS |

| | | | | |
|---|---|---|---|---|
| J908 | 95L 90 23 | TIN COATED | 0 | PCS |
| J909 | 95L 90 23 | TIN COATED | 0 | PCS |
| J910 | 95L 90 23 | TIN COATED | 0 | PCS |
| J911 | 95L 90 23 | TIN COATED | 0 | PCS |
| R917 | 61L 17210052T | 100HM 5% 1/4W | 1 | PCS |
| R243 | 61L 17210252T | 1K OHM 5% 1/4W | 1 | PCS |
| R244 | 61L 17210252T | 1K OHM 5% 1/4W | 1 | PCS |
| R918 | 61L 17210352T | CFR 10KOHM +-5% 1/4W | 1 | PCS |
| R920 | 61L 17247052T | 47OHM 5% 1/4W | 1 | PCS |
| R922 | 61L 17247052T | 47OHM 5% 1/4W | 1 | PCS |
| R908 | 61L 17268952T | 6.8OHM 5% 1/4W | 1 | PCS |
| R218 | 61L 60210152T | 100OHM +- 5% 1/6W | 1 | PCS |
| R219 | 61L 60210152T | 100OHM +- 5% 1/6W | 1 | PCS |
| R232 | 61L 60210252T | CFR 1K OHM+-5% 1/6W | 1 | PCS |
| R233 | 61L 60210252T | CFR 1K OHM+-5% 1/6W | 1 | PCS |
| R202 | 61L 60210352T | CFR 10K OHM+-5% 1/6W | 1 | PCS |
| R203 | 61L 60210352T | CFR 10K OHM+-5% 1/6W | 1 | PCS |
| R204 | 61L 60210352T | CFR 10K OHM+-5% 1/6W | 1 | PCS |
| R222 | 61L 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R223 | 61L 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R238 | 61L 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R239 | 61L 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R210 | 61L 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R211 | 61L 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R220 | 61L 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R221 | 61L 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R214 | 61L 60222252T | 2.2K 5% 1/6W | 1 | PCS |
| R215 | 61L 60222252T | 2.2K 5% 1/6W | 1 | PCS |
| R201 | 61L 60230352T | 30KOHM 5% 1/6W | 1 | PCS |
| R205 | 61L 60247352T | 47KOHM 5% 1/6W | 1 | PCS |
| R206 | 61L 60247352T | 47KOHM 5% 1/6W | 1 | PCS |
| R240 | 61L 60251352T | 51KOHM +-5% 1/6W | 1 | PCS |
| R241 | 61L 60251352T | 51KOHM +-5% 1/6W | 1 | PCS |
| R236 | 61L 60262152T | 620 OHM 5% 1/6W | 1 | PCS |
| R237 | 61L 60262152T | 620 OHM 5% 1/6W | 1 | PCS |
| R234 | 61L 60291152T | CFR 910 OHM+-5% 1/6W | 1 | PCS |
| R235 | 61L 60291152T | CFR 910 OHM+-5% 1/6W | 1 | PCS |
| FB902 | 71L 55 19 T | FERRITE BEAD 9X3.5X0.8 | 1 | PCS |
| ZD902 | 93L 39 5452T | ZENER HZ12B2 | 1 | PCS |
| ZD903 | 93L 39 7752T | ZENER HZ5C1 | 1 | PCS |

| | | | | |
|---|---|---|---|---|
| D901 | 93L 6026T52T | RECTIFIER DIODE FR107 | 1 | PCS |
| D902 | 93L 6038P52T | PS102R | 1 | PCS |
| D205 | 93L 64 1152T | 1N4148 | 1 | PCS |
| D206 | 93L 64 1152T | 1N4148 | 1 | PCS |
| D207 | 93L 64 1152T | 1N4148 | 1 | PCS |
| D208 | 93L 64 1152T | 1N4148 | 1 | PCS |
| D209 | 93L 64 1152T | 1N4148 | 1 | PCS |
| D210 | 93L 64 1152T | 1N4148 | 1 | PCS |
| D903 | 93L 64 1152T | 1N4148 | 1 | PCS |
| IC903 | 56L 158 4 T A | HTL431 | 1 | PCS |
| Q902 | 57L 419 PP T | 2PC945P | 1 | PCS |
| Q901 | 57L 420 PP T | 2PA733P | 1 | PCS |
| C911 | 64L700J1020AT | 1000PF 50V PEN | 1 | PCS |
| C204 | 64L700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C205 | 64L700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C206 | 64L700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C909 | 64L700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C936 | 64L700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C221 | 64L701J4740AT | 0.47uF 50V | 1 | PCS |
| C222 | 64L701J4740AT | 0.47uF 50V | 1 | PCS |
| C208 | 65L 44233113T | 330PJNPO 50V | 1 | PCS |
| C908 | 65L 450104 7T | 0.1UF +80-20% 50V Y5V | 1 | PCS |
| C920 | 65L517K102 5T6052 | 1000PF 10% Y5P 500V | 0 | PCS |
| C921 | 65L517K102 5T6052 | 1000PF 10% Y5P 500V | 0 | PCS |
| C920 | 65L517K102 5T6213 | 1000PF 10% Y5P 500V | 1 | PCS |
| C921 | 65L517K102 5T6213 | 1000PF 10% Y5P 500V | 1 | PCS |
| C920 | 65L517K102 5T6285 | 1000PF 10% Y5P 500V | 0 | PCS |
| C921 | 65L517K102 5T6285 | 1000PF 10% Y5P 500V | 0 | PCS |
| C907 | 67L 305220 7T | 22UF +-20% 50V | 1 | PCS |
| C207 | 67L 305479 7T | 4.7UF 20% 50V 105 | 1 | PCS |
| C924 | 67L215B4713HT | 470UF 16V LTR471M1CF11V | 1 | PCS |
| C926 | 67L215B4713HT | 470UF 16V LTR471M1CF11V | 1 | PCS |
| C201 | 67L215C1514HT | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| C223 | 67L215C1514HT | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : 705L 780 57 01 | Q903 ASS'Y | | |
| ----- | ---------- | ---------- | ---------- | --- |
| | 51L 200 1 | 散热油 | 0.02 | G |
| Q903 | 57L 723 3B | 2SK2761-01MR | 0 | PCS |
| Q903 | 57L 724 4 | 2SK2996 | 0 | PCS |

| | | | | |
|---|---|---|---|---|
| Q903 | 57L 724 4A | STP9NK60ZFP | 1 | PCS |
| | 90L 407 2 | HEAT SINK | 1 | PCS |
| | M1L1730 8128 | SCREW M3x8 | 1 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : 705L 780 57 02 | CN901 ASS'Y | | |
| ----- | ---------- | ---------- | ---------- | --- |
| CN901 | 87L 501 12 CJ | AC SOCKET | 1 | PCS |
| CN901 | 87L 501 12 RF | AC SOCKET | 0 | PCS |
| | 95L205S354022 | HARNESS | 1 | PCS |
| | 96L 29 6 | SHRINK TUBE UL/CSA | 20 | MM |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : 705L 780 57 15 | D910/D912 ASS'Y | | |
| ----- | ---------- | ---------- | ---------- | --- |
| | 90L6064 1 | HEAT SINK | 1 | PCS |
| D910 | 93L 60217 | FMB-29L | 1 | PCS |
| D910 | 93L 60224 | FCH10A10 | 0 | PCS |
| D912 | 93L 60235 | FCQ10A06(F10P06Q) | 1 | PCS |
| D912 | 93L 60236 | FMB-26L | 0 | PCS |
| | M1L1730 8128 | SCREW M3x8 | 2 | PCS |
| ----- | ---------- | ---------- | ---------- | --- |
| PARE | NT NO : 705L782KB34072 | BACK COVER ASS'Y | | |
| ----- | ---------- | ---------- | ---------- | --- |
| | 5L6012 1 | LIFT-RUBBER | 1 | PCS |
| | 12L 394 3 | FOOT-PORON | 7 | PCS |
| | 15L6069 1 | BASE BRACKET | 1 | PCS |
| | 19L 573 1 | SPRING | 1 | PCS |
| | 33L4647 GM L | COVER TILT | 1 | PCS |
| | 33L4648 GM L | COVER STAND | 1 | PCS |
| | 33L4650 1 X | HOLDER SPRING | 1 | PCS |
| | 34L1194 GM L | STAND | 1 | PCS |
| | 34L1195 GM L | STAND LIFT | 1 | PCS |
| | 34L1201 GM L | BASE | 1 | PCS |
| | 37L 477 1 | HINGE ASSY | 1 | PCS |
| | 51L 200500 | 润滑油 | 2 | G |
| | M1L 330 6 47 | SCREW 3X6mm | 2 | PCS |
| | Q1L 130 8120 | SCREW 3mmX8 | 7 | PCS |
| | Q1L 130 12120 | SCREW 3MMX12 | 4 | PCS |
| | Q1L 130 12120 | SCREW 3MMX12 | 2 | PCS |
| | W33L4646 GM L | COVER LIFT | 1 | PCS |
| | W33L4649 GM T | HOLDER LIFT | 1 | PCS |